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|      |          | 5,5'',6,6'',7,7'',8,8'',8A,8''A-EICOSAHYDRO-, STEREOISOMER/C |
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|      |          | )/CN   |
| E9   | 1        | A (HUMAN PROTEIN TSTA3 (TISSUE SPECIFIC TRANSPLANTATION ANTI |
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of prostamides (prostaglandin-ethanolamides) in feline iris)

847665-57-0, AGN 204396

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RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (identification of an antagonist that selectively blocks the activity of prostamides (prostaglandin-ethanolamides) in feline iris) THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT (1) Arunlakshana, O; Br J Pharmacol Chemother 1959, V257, P48 (2) Berglund, B; Adv Exp Med Biol 1999, V469, P527 CAPLUS (3) Burstein, S; Other Lipid Med 2000, V61, P29 CAPLUS (4) Chen, J; Br J Pharmcol 2005, V144, P493 CAPLUS (5) Coleman, R; Trends Pharmacol Sci 1984, V5, P303 CAPLUS (6) Dubiner, H; Surv Opthalmol 2001, V45, P5353 (7) Gandolfi, S; Ophthalmol 2003, V110, P609 (8) Glass, M; J Lipid Res 2005, V46, P1364 CAPLUS (9) Griffin, B; J Pharmacol Exp Ther 1999, V290, P1278 CAPLUS (10) Higginbotham, E; Arch Ophthalmol 2002, V120, P1286 CAPLUS (11) Hutchinson, J; PA2 2003, V1, P038P (12) Kelly, C; J Pharmacol Exp Ther 2003, V304, P238 CAPLUS (13) Koda, N; Arch Biochem Biophys 2003, V424, P128 (14) Kozak, K; J Biol Chem 2001, V276, P36993 CAPLUS (15) Kozak, K; J Biol Chem 2002, V277, P44877 CAPLUS (16) Liang, Y; Br J Pharmacol 2004, V142, P737 CAPLUS (17) Liang, Y; J Biol Chem 2003, V278, P27267 CAPLUS (18) Matias, I; J Pharmacol Exp Ther 2004, V309, P745 CAPLUS (19) Nirodi, C; Proc Nat Acad Sci 2004, V101, P1840 CAPLUS (20) Noecker, R; Am J Ophthalmol 2003, V135, P55 CAPLUS (21) Parrish, R; Am J Ophthalmol 2003, V135, P688 CAPLUS (22) Rockwell, C; J Pharmacol Exp Ther 2004, V34, P683 (23) Ross, R; J Pharmacol Exp Ther 2002, V301, P900 CAPLUS (24) Sharif, N; Eur J Pharmacol 2001, V432, P211 CAPLUS (25) Spada, C; Exp Eye Res 2005, V80, P135 CAPLUS (26) Weber, A; J Lipid Res 2004, V45, P757 CAPLUS (27) Woodward, D; Cardiovasc Drug Rev 2004, V22, P103 CAPLUS (28) Woodward, D; J Pharmacol Exp Ther 2003, V305, P772 CAPLUS (29) Woodward, D; Surv Ophthalmol 2001, V45, P5337 (30) Yu, M; J Biol Chem 1997, V272, P21181 CAPLUS => D L2 2 all ANSWER 2 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN 2007:81398 CAPLUS 146:475874 Entered STN: 24 Jan 2007 Insulin induces airway smooth muscle contraction Schaafsma, D.; Gosens, R.; Ris, J. M.; Zaagsma, J.; Meurs, H.; Nelemans, S. A. Department of Molecular Pharmacology, University of Groningen, Groningen, 9713 AV, Neth. British Journal of Pharmacology (2007), 150(2), 136-142 CODEN: BJPCBM; ISSN: 0007-1188 Nature Publishing Group Journal English 2-6 (Mammalian Hormones) Background and purpose: Recently, the use of inhaled insulin formulations for the treatment of type I and type II diabetes has been approved in Europe and in the United States. For regular use, it is critical that airway function remains unimpaired in response to insulin exposure. Exptl.

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CC AB approach: We investigated the effects of insulin on airway smooth muscle (ASM) contraction and contractile prostaglandin (PG) production, using guinea-pig open-ring tracheal smooth muscle prepns. Key results: It was found that insulin (1 nM-1  $\mu$ M) induced a concentration-dependent contraction that was insensitive to epithelium removal. These sustained contractions were susceptible to inhibitors of cyclooxygenase (indomethacin, 3 µM),

Rho-kinase (Y-27632, 1  $\mu$ M) and p42/44 MAP kinase (PD-98059, 30  $\mu$ M and U-0126, 3  $\mu M)\,,$  but not of PI-3-kinase (LY-294002,10  $\mu M)\,.$  In addition, insulin significantly increased  $PGF2\alpha$ -production which was inhibited by indomethacin, but not Y-27632. Moreover, the FP-receptor antagonist AL-8810 (10  $\mu\text{M})$  and the EP1-receptor antagonist AH-6809 (10 µM) strongly reduced insulin-induced contractions, supporting a pivotal role for contractile prostaglandins. Conclusions and implications: Collectively, the results show that insulin induces guinea-pig ASM contraction presumably through the production of contractile prostaglandins, which in turn are dependent on Rho-kinase for their contractile effects. The data suggest that administration of insulin as an aerosol could result in some acute adverse effects on ASM insulin prostaglandin signaling pathway airway smooth muscle contraction Drug delivery systems (aerosols, inhalants; insulin induced airway smooth muscle contraction via prostaglandin-related multiple pathways in relation to) Respiratory system, disease (inflammation; insulin induced airway smooth muscle contraction via prostaglandin-related multiple pathways in relation to) Muscle contraction Respiratory system Signal transduction, biological Trachea (anatomical) (insulin induced airway smooth muscle contraction via prostaglandin-related multiple pathways) Prostaglandins RL: ADV (Adverse effect, including toxicity); BSU (Biological study, unclassified); BIOL (Biological study) (insulin induced airway smooth muscle contraction via prostaglandin-related multiple pathways) Smooth muscle (of airway; insulin induced airway smooth muscle contraction via prostaglandin-related multiple pathways) Inflammation (respiratory tract; insulin induced airway smooth muscle contraction via prostaglandin-related multiple pathways in relation to) Prostanoid receptors RL: ADV (Adverse effect, including toxicity); BSU (Biological study, unclassified); BIOL (Biological study) (type EP1; insulin induced airway smooth muscle contraction via prostaglandin-related multiple pathways) Prostanoid receptors RL: ADV (Adverse effect, including toxicity); BSU (Biological study, unclassified); BIOL (Biological study) (type FP; insulin induced airway smooth muscle contraction via prostaglandin-related multiple pathways) 115926-52-8, Phosphatidylinositol-3 kinase 551-11-1,  $PGF2\alpha$ 137632-07-6, p44 Mitogen-activated protein kinase 137632-08-7, p42 Mitogen-activated protein kinase 142805-58-1, MEK 182372-13-0, Rho-kinase RL: ADV (Adverse effect, including toxicity); BSU (Biological study, unclassified); BIOL (Biological study) (insulin induced airway smooth muscle contraction via prostaglandin-related multiple pathways) 9004-10-8, Insulin, biological studies RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (insulin induced airway smooth muscle contraction via prostaglandin-related multiple pathways) 39391-18-9, Cyclooxygenase RL: ADV (Adverse effect, including toxicity); BSU (Biological study, unclassified); BIOL (Biological study) (insulin induced airway smooth muscle contraction via prostaglandin-related multiple pathways in relation to)

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- Preclinical pharmacology of AL-12182, a new ocular hypotensive 11-oxa ΤI prostaglandin analog
- Sharif, Najam A.; McLaughlin, Marsha A.; Kelly, Curtis R.; Xu, Shouxi; ΑU Crider, Julie Y.; Williams, Gary W.; Parker, Janet L.
- Ophthalmology Discovery Research, Alcon Research, Ltd., Fort Worth, TX, CS USA
- Journal of Ocular Pharmacology and Therapeutics (2006), 22(5), 291-309 SO CODEN: JOPTFU; ISSN: 1080-7683
- PΒ Mary Ann Liebert, Inc.
- DTJournal
- LA English
- CC 1-12 (Pharmacology)
- The aim of this study was to determine selected in vivo ocular properties of

AL-12182 (5,6-dihydro-4,5-didehydro-11-deoxy-11-oxa-16-(3-chlorophenoxy)- $\omega$ -tetranor-PGF2 $\alpha$  iso-Pr ester) and the in vitro profile of its free acid, AL-12180. Previously documented radioligand binding and functional assays involving human ciliary muscle cells (h-CM), human trabecular meshwork (h-TM) and other cells, and porcine ocular arteries were utilized. For in vivo procedures, we utilized rabbits, cats, and nonhuman primates to measure hyperemia, pupil diameter, and intraocular pressure (IOP), resp. AL-12180 exhibited the highest affinity for the FP-receptor (Ki = 143±36 nM) and much lower affinity for DP-, EP3-, IP-, and TP-receptors, and for several nonprostanoid receptors, enzymes, neurotransmitter uptake sites, ion channels, and other regulatory sites. AL- 12180 activated phospholipase C-mediated phosphoinositide hydrolysis (potency, EC50 = 13.7-42.7 nM) through the FP-receptor in a variety of cells, such as h-CM, h-TM cells, human embryonic kidney cells expressing the cloned human ciliary body FP-receptor (HEK-FP), mouse 3T3 cells, and rat vascular smooth muscle cells. AL-8810, an FP-antagonist, blocked the effects of AL-12180 in h-CM cells (IC50 = 8.7 μM). AL-12180 also stimulated the mobilization of intracellular Ca2+ ([Ca2+]i) in h-TM cells  $(EC50 = 111\pm36 \text{ nM})$ , h-CM cells (EC50 = 11 nM), and in host cells expressing the cloned human ciliary body FP-receptor (EC50 =  $5.9\pm3.1$  nM). AL-12180 lacked significant agonist activity at DP-, EP2-, EP4-, IP-, and TP-receptors in cell-based assays. However, AL-12180 contracted porcine central retinal and short posterior ciliary arteries in vitro with micromolar potencies that appeared to involve TP-receptor activation. in vivo, AL-12182 elicited dose-related hyperemia in the rabbit eye, miosis in the cat eye, and ocular hypotension in the nonhuman primate eye. AL-12180 is a relatively potent and selective FP-receptor agonist whose iso-Pr ester prodrug (AL-12182) lowers IOP by as much as 40% following topical ocular dosing in a laser-induced nonhuman primate model of ocular hypertension. antiglaucoma AL12182 ocular hypotension pharmacol Bradykinin receptors RL: BSU (Biological study, unclassified); BIOL (Biological study) (B2; preclin. pharmacol. of AL-12182) GABA receptors RL: BSU (Biological study, unclassified); BIOL (Biological study) (GABAA; preclin. pharmacol. of AL-12182) Calcium channel RL: BSU (Biological study, unclassified); BIOL (Biological study) (L-type; preclin. pharmacol. of AL-12182) Glutamate receptors RL: BSU (Biological study, unclassified); BIOL (Biological study) (NMDA-binding, channels; preclin. pharmacol. of AL-12182) Atrial natriuretic peptide receptors RL: BSU (Biological study, unclassified); BIOL (Biological study) (NPR-A; preclin. pharmacol. of AL-12182) Vasopressin receptors RL: BSU (Biological study, unclassified); BIOL (Biological study) (V1; preclin. pharmacol. of AL-12182) Biological transport (calcium; preclin. pharmacol. of AL-12182) Antiglaucoma agents Glaucoma (disease) Human Hyperemia Vasodilation (preclin. pharmacol. of AL-12182) Adenosine receptors Angiotensin AT1 receptors Benzodiazepine receptors

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Chloride channel Dopamine receptors

Endothelin ETA receptors Glutamate receptors Muscarinic receptors Phosphatidylinositols
Prostacyclin receptors
Sodium channel
Thromboxane receptors
α1-Adrenoceptors
α2-Adrenoceptors
β-Adrenoceptors

RL: BSU (Biological study, unclassified); BIOL (Biological study) (preclin. pharmacol. of AL-12182)

IT Prostanoid receptors

RL: BSU (Biological study, unclassified); BIOL (Biological study) (type DP; preclin. pharmacol. of AL-12182)

IT Prostanoid receptors

RL: BSU (Biological study, unclassified); BIOL (Biological study) (type EP1; preclin. pharmacol. of AL-12182)

IT Prostanoid receptors

RL: BSU (Biological study, unclassified); BIOL (Biological study) (type EP2; preclin. pharmacol. of AL-12182)

IT Prostanoid receptors

RL: BSU (Biological study, unclassified); BIOL (Biological study) (type EP3; preclin. pharmacol. of AL-12182)

IT Prostanoid receptors

RL: BSU (Biological study, unclassified); BIOL (Biological study) (type EP4; preclin. pharmacol. of AL-12182)

IT Prostanoid receptors

RL: BSU (Biological study, unclassified); BIOL (Biological study) (type FP; preclin. pharmacol. of AL-12182)

IT Opioid receptors

IT

RL: BSU (Biological study, unclassified); BIOL (Biological study) (σ-opioid; preclin. pharmacol. of AL-12182)

IT 9012-42-4, Adenylyl cyclase 85166-31-0, Inositol triphosphate
506430-87-1, Neuronal Nitric oxide synthase
RL: BSU (Biological study, unclassified); BIOL (Biological study)

(preclin. pharmacol. of AL-12182) 51-11-1, PGF2α 40665-92-7, Cloprostenol 130209-82-4,

551-11-1, PGF2α 40665-92-7, Cloprostenol Latanoprost 157283-68-6, Travoprost

RL: PAC (Pharmacological activity); BIOL (Biological study) (preclin. pharmacol. of AL-12182)

IT 192992-28-2, AL-12182 748816-43-5, AL-12180

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (preclin. pharmacol. of AL-12182)

IT 7440-70-2, Calcium, biological studies

RL: BSU (Biological study, unclassified); BIOL (Biological study) (transport; preclin. pharmacol. of AL-12182)

RE.CNT 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD RE

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     ANSWER 4 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN
     2006:1066930 CAPLUS
AN
     145:432603
DN
     Entered STN: 13 Oct 2006
ED
     Combination treatment methods combination treatment methods using GnRH
     and/or GnRH analog and prostaglandin synthesis inhibitor and/or
     prostaglandin receptor antagonist
     Jabbour, Henry Nicolas; Millar, Robert Peter; Naor, Zvi
IN
PA
     Medical Research Council, UK
     PCT Int. Appl., 106pp.
so
     CODEN: PIXXD2
DT
     Patent
LA
     English
IC
     ICM A61K
     2-5 (Mammalian Hormones)
     Section cross-reference(s): 1
FAN.CNT 1
     PATENT NO.
                           KIND
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                                                WO 2006-GB1209
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     WO 2006106311
                           A3
                                   20061221
     WO 2006106311
              AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
              CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
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VN, YU, ZA, ZM, ZW

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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
              GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
              KG, KZ, MD, RU, TJ, TM
                                  20050402
PRAI GB 2005-6759
                           Α
CLASS
 PATENT NO.
                 CLASS PATENT FAMILY CLASSIFICATION CODES
 WO 2006106311
                  ICM
                         A61P0035-00 [I,C]; A61K0031-40 [I,C]; A61K0038-08
                  IPCI
                         [I,C]; A61P0035-00 [I,A]; A61K0031-40 [I,A];
                         A61K0038-09 [I,A]
                         A61P0035-00 [I,C]; A61P0035-00 [I,A]; A61K0031-40
                  IPCR
                         [I,C]; A61K0031-40 [I,A]; A61K0038-08 [I,C];
                         A61K0038-09 [I,A]
AB
     A method of treating an individual with a condition which condition is one
     wherein the individual with the condition benefits from the administration
     of GnRH and/or a GnRH analog, the method comprising administering to the
     individual GnRH and/or a GnRH analog and an inhibitor of prostaglandin
     synthesis and/or a prostaglandin receptor antagonist. The methods of the
     invention also include combating a sex-hormone dependent disease in an
     individual, and regulating fertility in an individual.
ST
     GnRH analog prostaglandin synthesis receptor antagonist combination; sex
     hormone dependent disease treatment GnRH prostaglandin antagonist
     combination
     Prostaglandins
IT
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (E; combination treatment methods using GnRH and/or GnRH analog and
        prostaglandin synthesis inhibitor and/or prostaglandin receptor
        antagonist for treating sex-hormone dependent disease and regulating
        fertility)
IT
     Prostaglandins
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (I, amino and amido derivs.; combination treatment methods using GnRH
        and/or GnRH analog and prostaglandin synthesis inhibitor and/or
        prostaglandin receptor antagonist for treating sex-hormone dependent
        disease and regulating fertility)
IT
     Porphyria
        (acute intermittent; combination treatment methods using GnRH and/or
        GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin
        receptor antagonist for treating sex-hormone dependent disease and
        regulating fertility)
IT
     Prostacyclin receptors
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (antagonists; combination treatment methods using GnRH and/or GnRH
        analog and prostaglandin synthesis inhibitor and/or prostaglandin
        receptor antagonist for treating sex-hormone dependent disease and
        regulating fertility)
IT
     Antibodies and Immunoglobulins
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (anti-IP receptor; combination treatment methods using GnRH and/or GnRH
        analog and prostaglandin synthesis inhibitor and/or prostaglandin
        receptor antagonist for treating sex-hormone dependent disease and
        regulating fertility)
IT
     Prostate gland, disease
        (benign hyperplasia; combination treatment methods using GnRH and/or
        GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin
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Hyperplasia (benign prostatic; combination treatment methods using GnRH and/or GnRH

receptor antagonist for treating sex-hormone dependent disease and

regulating fertility)

IT

analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)

IT Drug delivery systems

(carriers; combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)

IT Antitumor agents

Combination chemotherapy
Hirsutism
In vitro fertilization
Kallmann syndrome
Mammary gland, neoplasm
Ovary, neoplasm
Prostaglandin antagonists
Prostate gland, neoplasm

Signal transduction, biological

Uterus, neoplasm

(combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)

IT Gonadotropin-releasing hormone receptor

RL: BSU (Biological study, unclassified); BIOL (Biological study) (combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)

IT Carboxylic acids, biological studies

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)

IT Sex hormones

RL: BSU (Biological study, unclassified); BIOL (Biological study) (diseases dependent on; combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)

IT Uterus, disease

(endometriosis; combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)

IT Contraceptives

Fertility

(female; combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)

IT Reproductive system, disease

(hypogonadism; combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)

IT Uterus, neoplasm

(leiomyoma; combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)

IT Ovary, disease

(polycystic; combination treatment methods using GnRH and/or GnRH

analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)

IT Puberty disorders

(precocious puberty; combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)

IT Ovarian cycle

(premenstrual syndrome; combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)

IT Sexual disorders

(sex offender; combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)

IT Disease, animal

(sex-hormone dependent; combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)

- IT Prostaglandins
  - RL: BSU (Biological study, unclassified); BIOL (Biological study)
    (synthesis, inhibitors; combination treatment methods using GnRH and/or
    GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin
    receptor antagonist for treating sex-hormone dependent disease and
    regulating fertility)
- IT Prostanoid receptors
  - RL: BSU (Biological study, unclassified); BIOL (Biological study) (type EP, antagonists; combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)
- IT Prostanoid receptors
  - RL: BSU (Biological study, unclassified); BIOL (Biological study) (type EP1; combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)
- IT Prostanoid receptors
  - RL: BSU (Biological study, unclassified); BIOL (Biological study) (type EP2; combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)
- IT Prostanoid receptors
  - RL: BSU (Biological study, unclassified); BIOL (Biological study) (type EP3; combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)
- IT Prostanoid receptors
  - RL: BSU (Biological study, unclassified); BIOL (Biological study) (type EP4; combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)
- IT Prostanoid receptors
  - RL: BSU (Biological study, unclassified); BIOL (Biological study) (type FP, antagonists; combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)

(vulgaris; combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)

IT 64603-03-8, AL 3138

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(AL 3138; combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)

IT 551-11-1, PGF2α 78919-13-8, Iloprost

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(GnRH receptors response to; combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)

IT 130751-52-9 773143-90-1 773143-91-2 912569-04-1 912569-05-2

RL: PRP (Properties)

(Unclaimed; combination treatment methods combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist)

IT 634586-21-3

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertil3ity)

- IT 133876-97-8, Phospholipase A2 329967-85-3, Cyclooxygenase 1
  RL: BSU (Biological study, unclassified); BIOL (Biological study)
  (combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)
- IT 1848-75-5D, derivs. 9034-40-6, LH-RH 10238-21-8, 60-82-2, Phloretin 57773-63-4, Triptorelin Glibenclamide 51803-78-2, Nimesulide 57982-77-1, Buserelin 64868-63-9D, 6,9-Thiaprostacyclin, analogs 67508-08-1 67508-09-2 69609-77-4 71125-38-7, 65807-02-5, Zoladex 74381-53-6, Lupron 74480-23-2, AH22921X 76932-60-0, Meloxicam 80937-31-1, Flosulide Synarel 81443-73-4, AH23848B 88931-52-6D, 110140-89-1, Ridogrel 112568-12-4, 93379-83-0, FCE 22176 derivs. 144743-92-0, Antide 120287-85-6, Cetrorelix 124904-93-4, Ganirelix 147776-06-5 147776-08-7 159044-92-5 Teverelix 147776-01-0 162011-90-7, Vioxx 159044-95-8 183552-38-7, Abarelix 220810-26-4, 246246-19-5, AL-8810 Supprelin 228729-11-1 261773-00-6 261772-99-0 261773-01-7 261772-89-8 261772-90-1 261773-04-0 261773-05-1 261773-06-2 261773-02-8 261773-03-9 261773-08-4 261773-09-5 261773-10-8 617708-47-1 261773-07-3 617708-52-8 617708-53-9 617708-48-2 617708-50-6 617708-51-7 744213-90-9 745044-25-1, PHG 113 911638-05-6 744213-88-5D, derivs. 912589-34-5 934016-19-0, FE 200486 911638-06-7 911758-18-4 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)
- IT 39391-18-9, Cyclooxygenase 329900-75-6, Cyclooxygenase 2
  RL: BSU (Biological study, unclassified); BIOL (Biological study)
   (inhibitors; combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)

IT 506-32-1, Arachidonic acid

RL: BSU (Biological study, unclassified); BIOL (Biological study) (release; combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist for treating sex-hormone dependent disease and regulating fertility)

60556-70-9, 1: PN: WO2006106311 SEQID: 1 unclaimed sequence7 912589-58-3 IT 912589-59-4 912589-60-7 912589-61-8 912589-62-9 912589-63-0 912589-64-1 912589-65-2 912589-66-3 912589-67-4 912589-68-5 912589-69-6 912589-70-9 912589-71-0 912589-72-1 912589-73-2 912589-74-3 912589-75-4 912589-76-5 912589-77-6 912589-78-7 912589-79-8 912589-80-1 912589-81-2 912589-82-3 912589-83-4 912589-87-8 912589-84-5 912589-85-6 912589-86-7 912589-88-9 912603-20-4

RL: PRP (Properties)

(unclaimed sequence; combination treatment methods combination treatment methods using GnRH and/or GnRH analog and prostaglandin synthesis inhibitor and/or prostaglandin receptor antagonist)

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- L2 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN
- AN 2006:1043148 CAPLUS
- DN 145:370131
- ED Entered STN: 08 Oct 2006
- TI Mechanisms regulating spontaneous contractions in the bovine epididymal duct
- AU Mewe, Marco; Bauer, Christiane K.; Schwarz, Juergen R.; Middendorff, Ralf
- CS Institut fuer Anatomie II: Experimentelle Morphologie, Zentrum fuer Experimentelle Medizin, Universitaetsklinikum Hamburg-Eppendorf, Universitaet Hamburg, Hamburg, D-20246, Germany
- SO Biology of Reproduction (2006), 75(4), 651-659 CODEN: BIREBV; ISSN: 0006-3363
- PB Society for the Study of Reproduction
- DT Journal
- LA English
- CC 2-9 (Mammalian Hormones)
- Muscular autorhythmicity provides propulsion of spermatozoa through the epididymal duct, thereby ensuring sperm maturation. In the present study, the mechanisms underlying the bovine epididymal spontaneous phasic contractions (SCs) were analyzed by using muscle-tension recording and patch-clamp techniques. SCs were recorded from the caput, the corpus, and the proximal cauda region and found to be predominantly myogenic in origin. Removal of the luminal fluid induced a burst-like contraction pattern, and removal of the epithelium, a complete loss of SCs. Application of nifedipine, but not heparin and cyclopiazonic acid, suppressed SCs, indicating that influx of Ca2+ through L-type Ca2+ channels, but not Ca2+ release from intracellular stores, was crucial for maintaining SCs. The prostaglandin-endoperoxide synthase 2 (PTGS2) inhibitor NS-398 caused a region-dependent decrease in SCs and tone. These effects were mimicked by the mitogen-activated protein kinase (MAPK) kinase inhibitor PD-98059. Similarly, the prostaglandin F2alpha (PGF2alpha)-receptor antagonist AL-8810 reduced SC generation, whereas PGF2alpha induced SC-like activity in epithelium-denuded segments. Cell-isolation expts. revealed the existence of three morphol. different types of contractile cells, which also showed distinct biophys. properties: typical smooth muscle cells in the cauda, myofibroblast-like cells all along the duct, and atypical muscle cells (ATMs) with filament-like spurs in all regions with SCs. These data suggest that the bovine epididymal autorhythmicity is based on an epithelial PTGS2-dependent release of (an) excitatory prostaglandin(s) and a MAPK-dependent activation of L-type Ca2+ channels in the contractile cells. ATM cells may provide elec. coupling between myofibroblasts, which is essential for the generation of regular myogenic activity.

epididymis contraction sperm motility prostaglandin endoperoxide synthase ST PGF2alpha signaling; calcium channel MAP kinase prostaglandin epididymis contraction signaling IT Calcium channel RL: BSU (Biological study, unclassified); BIOL (Biological study) (L-type; prostaglandin related mechanisms regulating spontaneous contractions in bovine epididymal duct) IT (atypical cells; prostaglandin related mechanisms regulating spontaneous contractions in bovine epididymal duct) IT (epididymal; prostaglandin related mechanisms regulating spontaneous contractions in bovine epididymal duct) IT Epididymis (epithelium; prostaglandin related mechanisms regulating spontaneous contractions in bovine epididymal duct) Biological transport IT (influx; prostaglandin related mechanisms regulating spontaneous contractions in bovine epididymal duct) IT Fibroblast (myofibroblast; prostaglandin related mechanisms regulating spontaneous contractions in bovine epididymal duct) IT Cell morphology Epididymis Muscle contraction Signal transduction, biological Sperm motility (prostaglandin related mechanisms regulating spontaneous contractions in bovine epididymal duct) IT Muscle (smooth; prostaglandin related mechanisms regulating spontaneous contractions in bovine epididymal duct) IT Prostanoid receptors RL: BSU (Biological study, unclassified); BIOL (Biological study) (type FP; prostaglandin related mechanisms regulating spontaneous contractions in bovine epididymal duct) 7440-70-2, Calcium, biological studies IT 551-11-1, Prostaglandin  $F2\alpha$ 137632-08-7, Mitogen-activated protein kinase 2 329900-75-6, Prostaglandin-endoperoxide synthase 2 RL: BSU (Biological study, unclassified); BIOL (Biological study) (prostaglandin related mechanisms regulating spontaneous contractions in bovine epididymal duct) THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 56 RE (1) Andersson, K; Acta Pharmacol Toxicol 1978, V43(suppl 2), P90 (2) Baumgarten, H; Z Zellforsch Mikrosk Anat 1971, V120, P37 CAPLUS (3) Bucher, O; Cytologie, Histologie und mikroskopische Anatomie des Menschen 1997, P102 (4) Buckner, S; Br J Pharmacol 2002, V135, P639 CAPLUS (5) Carl, A; Am J Physiol 1996, V271, PC9 CAPLUS (6) Carvajal, J; J Cell Physiol 2000, V184, P409 CAPLUS (7) Cheuk, B; Biol Reprod 2000, V63, P775 CAPLUS (8) Cosentino, M; J Androl 1984, V5, P216 CAPLUS (9) Cosentino, M; Urol Res 1986, V14, P229 CAPLUS (10) Cyr, D; Endocrinology 1996, V137, P1474 CAPLUS (11) Da Silva, E; Experientia 1974, V30, P1063 (12) Da Silva, E; Fertil Steril 1975, V26, P1250 (13) Dickens, E; J Physiol 1999, V514, P515 CAPLUS (14) Duchen, M; J Physiol 1999, V516, P1 CAPLUS

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# => D L2 20 all

- L2 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN
- AN 2001:77566 CAPLUS
- DN 134:126401
- ED Entered STN: 02 Feb 2001
- TI AL-3138 antagonizes FP prostanoid receptor-mediated inositol phosphates generation: comparison with some purported FP antagonists
- AU Sharif, N. A.; Crider, J. Y.; Davis, T. L.
- CS Molecular Pharmacology Unit, Alcon Research Ltd, Fort Worth, TX, 76134, USA
- SO Journal of Pharmacy and Pharmacology (2000), 52(12), 1529-1539 CODEN: JPPMAB; ISSN: 0022-3573
- PB Royal Pharmaceutical Society of Great Britain
- DT Journal
- LA English
- CC 2-9 (Mammalian Hormones)
   Section cross-reference(s): 1
- AB The aim of this study was to pharmacol. characterize the antagonist properties of a novel prostaglandin F2α (PGF2α) analog (11-deoxy-16-fluoro PGF2α; AL-3138) using a variety of second-messenger assays of prostaglandin receptor subtypes. A detailed comparison was made between AL-3138 and some purported FP receptor antagonists such as PGF2α dimethylamine, PGF2α dimethylamide, glibenclamide and phloretin using the FP receptor-mediated phosphoinositide turnover assay in A7r5 rat thoracic aorta smooth muscle

cells and mouse Swiss 3T3 fibroblasts. The potency and efficacy of AL-3138 as an FP receptor agonist were: EC50=72.2±17.9nM (Emax=37%) (n=3) in A7r5 cells and EC50=20.5 $\pm$ 2.8nM (Emax=33%) (n=5) in 3T3 cells. Being a partial agonist, the antagonist potency of AL-3138 against fluprostenol in A7r5 cells was determined to be:  $Ki=296\pm17nM$  (n=3) and  $Kb=182\pm44nM$  (n=5) (-log  $Kb=6.79\pm0.1$ ). AL-3138 exhibited very minimal or no antagonistic effects at EP2, EP4, DP and TP prostaglandin receptors. Both PGF2 $\alpha$  dimethylamide and PGF2 $\alpha$  dimethylamine were inactive as FP receptor antagonists, whereas phloretin and glibenclamide were very weak and had -log Kb values of  $5.28\pm0.09$  (n=3) and  $3.58\pm0.32$  (n=3), resp. However, phloretin antagonized functional responses of EP2 and DP prostanoid receptors, and also the V1-vasopressin receptor. AL-3138 competed for [3H] PGF2 $\alpha$  binding to FP receptors with a relatively high affinity (IC50high=312±95nM) matching its functional antagonist potency. In conclusion, AL-3138 is a more potent and selective FP receptor antagonist than glibenclamide, phloretin, PGF2 $\alpha$  dimethylamide and PGF2 $\alpha$  dimethylamine and is therefore a unique and novel pharmacol. tool to help characterize FP receptor-mediated functions.

ST prostanoid receptor FP antagonist AL3138

IT Fibroblast

(AL-3138 antagonizes FP prostanoid receptor-mediated inositol phosphates generation in A7r5 rat thoracic aorta smooth muscle cells and Swiss 3T3 albino mouse fibroblasts in relation to comparison with purported FP antagonists)

IT Prostanoid receptors

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(FP; AL-3138 antagonizes FP prostanoid receptor-mediated inositol phosphates generation in A7r5 rat thoracic aorta smooth muscle cells and Swiss 3T3 albino mouse fibroblasts in relation to comparison with purported FP antagonists)

IT Blood vessel

(smooth muscle; AL-3138 antagonizes FP prostanoid receptor-mediated inositol phosphates generation in A7r5 rat thoracic aorta smooth muscle cells and Swiss 3T3 albino mouse fibroblasts in relation to comparison with purported FP antagonists)

IT 551-11-1, PGF2 $\alpha$ 

RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(AL-3138 antagonizes FP prostanoid receptor-mediated inositol phosphates generation in A7r5 rat thoracic aorta smooth muscle cells and Swiss 3T3 albino mouse fibroblasts in relation to comparison with purported FP antagonists)

IT 60-82-2, Phloretin 64-77-7, Tolbutamide 1156-19-0, Tolazamide 10238-21-8, Glibenclamide 40666-16-8, Fluprostenol 64603-03-8, AL 3138 67508-08-1 67508-09-2 246246-19-5, AL-8810

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(AL-3138 antagonizes FP prostanoid receptor-mediated inositol phosphates generation in A7r5 rat thoracic aorta smooth muscle cells and Swiss 3T3 albino mouse fibroblasts in relation to comparison with purported FP antagonists)

IT 60-92-4, CAMP 68247-19-8, Inositol phosphate
RL: BPR (Biological process); BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative); PROC (Process)

(AL-3138 antagonizes FP prostanoid receptor-mediated inositol phosphates generation in A7r5 rat thoracic aorta smooth muscle cells and Swiss 3T3 albino mouse fibroblasts in relation to comparison with purported FP antagonists)

RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD RE

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exact/norm bonds :

1-2 1-5 2-3 3-4 3-23 4-5 18-21 19-25 19-26 25-28 26-27

exact bonds :

1-20 4-6 5-16 6-7 7-8 8-9 9-10 10-11 11-12 13-14 16-17 17-18 18-19 21-22 23-24

normalized bonds :

12-13 12-15 27-28 27-29 28-32 29-30 30-31 31-32

#### Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:Atom 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom

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L1 HAS NO ANSWERS

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1 ANSWERS

L2 1 SEA FAM FUL L1

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L2 1 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN 5-Heptenoic acid, 7-[(1R,2R,3S,5S)-2-[(1E,3R)-3-(2,3-dihydro-1H-inden-2-yl)-3-hydroxy-1-propenyl]-3-fluoro-5-hydroxycyclopentyl]-, (5Z)- (9CI)

MF C24 H31 F O4

Absolute stereochemistry.

Double bond geometry as shown.

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#### ALL ANSWERS HAVE BEEN SCANNED

#### => D L2

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN

RN 246246-19-5 REGISTRY

ED Entered STN: 05 Nov 1999

CN 5-Heptenoic acid, 7-[(1R,2R,3S,5S)-2-[(1E,3R)-3-(2,3-dihydro-1H-inden-2-yl)-3-hydroxy-1-propenyl]-3-fluoro-5-hydroxycyclopentyl]-, (5Z)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN AL 8810

FS STEREOSEARCH

MF C24 H31 F O4

SR CA

LC STN Files: BIOSIS, CA, CAPLUS, CHEMCATS, CSCHEM, TOXCENTER, USPAT2, USPATFULL

Absolute stereochemistry.

Double bond geometry as shown.

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BIOSIS, CA, CAPLUS, CHEMCATS, CSCHEM, TOXCENTER, USPAT2,

Absolute stereochemistry.
Double bond geometry as shown.

C24 H31 F O4

STN Files: USPATFULL

MF

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CA

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10 L3 L4

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ANSWER 1 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2006:1066930 CAPLUS

DOCUMENT NUMBER:

145:432603

TITLE:

Combination treatment methods combination treatment

methods using GnRH and/or GnRH analog and

prostaglandin synthesis inhibitor and/or prostaglandin

receptor antagonist

INVENTOR(S):

Jabbour, Henry Nicolas; Millar, Robert Peter; Naor,

Zvi

PATENT ASSIGNEE(S):

Medical Research Council, UK

SOURCE:

PCT Int. Appl., 106pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PATENT NO.         | KIND DATE       | APPLICATION NO.     | DATE            |
|--------------------|-----------------|---------------------|-----------------|
|                    |                 |                     |                 |
| WO 2006106311      | A2 20061012     | WO 2006-GB1209      | 20060403        |
| WO 2006106311      | A3 20061221     |                     |                 |
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| CN, CO, CR,        | CU, CZ, DE, DK, | DM, DZ, EC, EE, EG, | ES, FI, GB, GD, |
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| IS, IT, LT,        | LU, LV, MC, NL, | PL, PT, RO, SE, SI, | SK, TR, BF, BJ, |
| CF, CG, CI,        | CM, GA, GN, GQ, | GW, ML, MR, NE, SN, | TD, TG, BW, GH, |
| GM, KE, LS,        | MW, MZ, NA, SD, | SL, SZ, TZ, UG, ZM, | ZW, AM, AZ, BY, |
| KG, KZ, MD,        | RU, TJ, TM      | •                   |                 |
| RITY APPLN. INFO.: |                 | GB 2005-6759        | A 20050402      |

PRIORITY APPLN. INFO.: A 20050402 A method of treating an individual with a condition which condition is one wherein the individual with the condition benefits from the administration of GnRH and/or a GnRH analog, the method comprising administering to the individual GnRH and/or a GnRH analog and an inhibitor of prostaglandin synthesis and/or a prostaglandin receptor antagonist. The methods of the invention also include combating a sex-hormone dependent disease in an individual, and regulating fertility in an individual.

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ANSWER 2 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
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ACCESSION NUMBER:

2006:707249 CAPLUS

DOCUMENT NUMBER:

145:117453

TITLE:

Embryo development and survival.

INVENTOR(S):

Schrick, F. Neal

PATENT ASSIGNEE(S):

University of Tennessee Research Foundation, USA

U.S. Pat. Appl. Publ., 8 pp. SOURCE:

CODEN: USXXCO

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PATENT NO.  | KI         | ND DA          | APPLICATION NO. |          |        |       |       | DATE |       |      |     |
|---|------------|----------------|-----------------|----------|--------|-------|-------|------|-------|------|-----|
|   | <b></b> -  | <del>-</del> - |                 |          |        |       |       |      |       |      |     |
| US 2006162003   | A)         | L 20           | 0060720         | US       | 2005-  | 3966  | 2     |      | 20    | 0050 | 119 |
| WO 2006078535   | A2         | 2 20           | 0060727         | WO       | 2006-1 | US10: | 91    |      | 20    | 0060 | 113 |
| WO 2006078535   |            |                | 0061214         |          |        |       |       |      |       |      |     |
| W: AE, A  | G, AL, AM, | AT, A          | AU, AZ,         | BA, BB   | , BG,  | BR,   | BW,   | BY,  | BZ,   | CA,  | CH, |
| CN, C   | O, CR, CU, | CZ, I          | DE, DK,         | DM, DZ   | , EC,  | EE,   | EG,   | ES,  | FI,   | GB,  | GD, |
| GE, G   | H, GM, HR  | HU,            | ID, IL,         | IN, IS   | , JP,  | KE,   | KG,   | KM,  | KN,   | ΚP,  | KR, |
| KZ, L   | C, LK, LR, | LS, I          | LT, LU,         | LV, LY   | , MA,  | MD,   | MG,   | MK,  | MN,   | MW,  | MX, |
| MZ, N   | A, NG, NI, | NO, N          | NZ, OM,         | PG, PH   | , PL,  | PT,   | RO,   | RU,  | SC,   | SD,  | SE, |
| SG, S   | K, SL, SM, | SY, 7          | rJ, TM,         | TN, TR   | , TT,  | ΤZ,   | UA,   | UG,  | US,   | UZ,  | VC, |
| VN, Y   | J, ZA, ZM, | ZW             |                 |          |        |       |       |      |       |      |     |
| RW: AT, B   | E, BG, CH, | CY, C          | CZ, DE,         | DK, EE   | , ES,  | FI,   | FR,   | GB,  | GR,   | ·HU, | ΙE, |
| IS, I   | r, LT, LU, | LV, N          | MC, NL,         | PL, PT   | , RO,  | SE,   | SI,   | SK,  | TR,   | BF,  | ВJ, |
| CF, C   | G, CI, CM, | GA, C          | GN, GQ,         | GW, ML   | , MR,  | ΝE,   | SN,   | TD,  | TG,   | BW,  | GH, |
| GM, K   | E, LS, MW, | MZ, N          | NA, SD,         | SL, SZ   | , TZ,  | ŪĠ,   | ZM,   | ZW,  | AM,   | ΑZ,  | BY, |
| KG, K   | z, MD, RU, | TJ, T          | ГM              |          |        |       |       |      |       |      |     |
| PRIORITY APPLN. IN  | FO.:       |                |                 | US :     | 2005-3 | 39662 | 2     | 7    | A 20  | 0050 | 119 |
| AB An embryo tha  | t is trans | ferre          | d into t        | the ute: | rus o  | f a : | recij | pien | t fer | nale | is  |
| protected from embryotoxic effects of prostaglandin F2α by exposing |            |                |                 |          |        |       |       |      |       |      |     |
| the embryo to   |            |                |                 |          | _      |       |       | -    | _     | _    |     |

ANSWER 3 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2004:701992 CAPLUS

DOCUMENT NUMBER:

141:218963

TITLE:

IP receptor antagonists for the treatment of

pathological uterine conditions

INVENTOR(S):

Critchley, Hilary Octavia Dawn; Jabbour, Henry Nicolas Medical Research Council, UK

PATENT ASSIGNEE(S):

PCT Int. Appl., 93 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

1

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

| PATENT N      | 10.        | KIND   | DATE       | APPLICATION NO.     | DATE            |  |  |
|---------------|------------|--------|------------|---------------------|-----------------|--|--|
| WO 20040      | 71508      | A1     | 20040826   | WO 2004-GB588       | 20040216        |  |  |
| W :           | AE, AG, AL | AM, A  | T, AU, AZ, | BA, BB, BG, BR, BW, | BY, BZ, CA, CH, |  |  |
|               | CN, CO, CR | CU, C  | Z, DE, DK, | DM, DZ, EC, EE, EG, | ES, FI, GB, GD, |  |  |
|               | GE, GH, GM | HR, H  | U, ID, IL, | IN, IS, JP, KE, KG, | KP, KR, KZ, LC, |  |  |
|               | LK, LR, LS | LT, LU | U, LV, MA, | MD, MG, MK, MN, MW, | MX, MZ, NA, NI  |  |  |
| RW:           | BW, GH, GM | KE, LS | S, MW, MZ, | SD, SL, SZ, TZ, UG, | ZM, ZW, AT, BE, |  |  |
|               | BG, CH, CY | CZ, DI | E, DK, EE, | ES, FI, FR, GB, GR, | HU, IE, IT, LU, |  |  |
|               | MC, NL, PT | RO, SI | E, SI, SK, | TR, BF, BJ, CF, CG, | CI, CM, GA, GN, |  |  |
|               | GQ, GW, ML | MR, NE | E, SN, TD, | TG                  |                 |  |  |
| EP 15968      | 358        | A1     | 20051123   | EP 2004-711405      | 20040216        |  |  |
| R:            | AT, BE, CH | DE, DE | K, ES, FR, | GB, GR, IT, LI, LU, | NL, SE, MC, PT, |  |  |
|               | IE, SI, LT | LV, F  | I, RO, MK, | CY, AL, TR, BG, CZ, | EE, HU, SK      |  |  |
| JP 20065      | 17576      | T      | 20060727   | JP 2006-502277      | 20040216        |  |  |
| US 20061      | 71945      | A1     | 20060803   | US 2005-545478      | 20050815        |  |  |
| PRIORITY APPL | N. INFO.:  |        |            | GB 2003-3430        | A 20030214      |  |  |
|               |            |        |            | GB 2003-15322       | A 20030701      |  |  |
|               |            |        |            | WO 2004-GB588       | W 20040216      |  |  |

A method of combating a pathol. condition of the uterus in a female AB individual, the method comprising administering to the individual at least one agent that is an antagonist of the IP receptor and/or a PGIS

inhibitor. The pathol. condition of the uterus is uterine carcinoma, menorrhagia, dysmenorrhoea or an endometrial or myometrial pathol. condition.

L4 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:855825 CAPLUS

DOCUMENT NUMBER: 139:354462

TITLE: FP receptor antagonists or  $PGF2\alpha$  antagonists for

treating menorrhagia

INVENTOR(S): Jabbour, Henry Nicolas; Critchley, Hilary Octavia Dawn

PATENT ASSIGNEE(S): Medical Research Council, UK

SOURCE: PCT

PCT Int. Appl., 60 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

|      | PA'  | <b>TENT</b> | NO.   |                 |       | KIN  | D   | DATE |       |     | APPI | ICAT  | ION 1 | NO. |     | D.  | ATE   |     |
|------|------|-------------|-------|-----------------|-------|------|-----|------|-------|-----|------|-------|-------|-----|-----|-----|-------|-----|
|      |      |             |       |                 |       |      | -   |      |       |     |      |       |       |     |     | -   |       |     |
|      | WO   | 2003        | 0890  | 02              |       | A1   |     | 2003 | 1030  | 1   | WO 2 | 003-  | GB15  | 36  |     | 2   | 0030  | 410 |
| •    | WO   | 2003        | 0890  | 02              |       | A9   |     | 2004 | 1223  |     |      |       | -     |     |     |     |       |     |
|      |      | W:          | ΑE,   | AG,             | AL,   | AM,  | ΑT, | AU,  | ΑZ,   | BA, | BB,  | ВG,   | BR,   | BY, | BZ, | CA, | CH,   | CN, |
|      |      |             | CO,   | CR,             | CU,   | CZ,  | DE, | DK,  | DM,   | DZ, | EC,  | EE,   | ES,   | FI, | GB, | GD, | GE,   | GH, |
|      |      |             | GM,   | HR,             | HU,   | ID,  | IL, | IN,  | IS,   | JP, | ΚE,  | KG,   | ΚP,   | KR, | KZ, | LC, | LK,   | LR, |
|      |      |             | LS,   | LT,             | LU,   | LV,  | MA, | MD,  | MG,   | MK, | MN,  | MW,   | MX,   | MZ, | NI, | NO, | NZ,   | OM, |
|      |      |             | PH,   | PL,             | PT,   | RO,  | RU, | SC,  | SD,   | SE, | SG,  | SK,   | SL,   | ТJ, | TM, | TN, | TR,   | TT, |
|      |      |             | TZ,   | UA,             | ŪĠ,   | US,  | UZ, | VC,  | VN,   | YU, | ZA,  | ZM,   | ZW    |     |     |     |       |     |
|      |      | RW:         | GH,   | GM,             | KE,   | LS,  | MW, | MZ,  | SD,   | SL, | SZ,  | TZ,   | ŪĠ,   | ZM, | ZW, | AM, | AZ,   | ΒY, |
|      |      |             | KG,   | ΚZ,             | MD,   | RU,  | ТJ, | TM,  | ΑT,   | BE, | BG,  | CH,   | CY,   | CZ, | DE, | DK, | EE,   | ES, |
|      |      |             | FI,   | FR,             | GB,   | GR,  | HU, | IE,  | IT,   | LU, | MC,  | NL,   | PT,   | RO, | SE, | SI, | SK,   | TR, |
|      |      |             | BF,   | ВJ,             | CF,   | CG,  | CI, | CM,  | GA,   | GN, | GQ,  | GW,   | ML,   | MR, | NE, | SN, | TD,   | TG  |
|      | ΑU   | 2003        | 2193: | 27 <sup>.</sup> | •     | A1   | ·   | 2003 | 1103  |     | AU 2 | 003-  | 2193  | 27  |     | 2   | 0030  | 110 |
|      | EP   | 1494        | 715   |                 |       | A1   |     | 2005 | 0112  | ]   | EP 2 | 003-  | 7151  | 36  |     | 2   | 0030  | 110 |
|      |      |             |       |                 |       |      |     |      |       |     |      | IT,   |       |     |     |     | MC,   | PT. |
|      |      |             |       |                 | •     |      | •   | •    |       |     | -    | TR,   |       |     |     |     |       |     |
|      | JР   | 2005        |       |                 |       |      |     |      | •     | •   |      |       |       | -   | -   | _   |       | 110 |
|      |      | 2006        |       |                 |       |      |     |      | •     |     |      |       |       |     |     |     | 0051  |     |
| PRIO |      | Y APP       |       |                 |       |      |     |      |       |     |      | 002-  |       |     |     |     |       |     |
|      |      |             |       |                 | • •   |      |     |      |       |     |      | 002-  |       |     |     |     |       |     |
|      |      |             |       |                 |       |      |     |      |       |     |      | 003-0 |       |     |     | -   | 00304 |     |
| λÐ   | 7. + | netho       | d of  | tra             | atino | a or | nre | went | ina r |     |      |       |       |     |     | _   |       |     |

AB A method of treating or preventing menorrhagia in a female individual comprising administering to the individual at least one agent that prevents PGF2α having its effect on the prostaglandin FP receptor. Optionally, an inhibitor of prostaglandin endoperoxide synthase (PGES) and/or an antagonist of EP2 or EP4 is also administered. For example, a patient with menorrhagia was treated with a FP receptor antagonist AL-3138 or AL-8810 at a dosing and frequency such that the therapeutic level of active agents at the site of treatment is maintained at a level ideally EC90 but preferably not less than EC50 throughout the treatment period. The treatment was delivered orally or more locally depending on patient acceptability, avoidance of side effects, and systemic bioavailability.

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:855824 CAPLUS

DOCUMENT NUMBER: 139:354461

TITLE: FP receptor antagonists or  $PGF2\alpha$  antagonists for

treating pathological conditions of the uterus Milne, Stuart Angus; Jabbour, Henry Nicolas

INVENTOR(S): Milne, Stuart Angus; Jabbour

PATENT ASSIGNEE(S): Medical Research Council, UK

SOURCE: PCT Int. Appl., 59 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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APPLICATION NO.
                        KIND
                               DATE
     PATENT NO.
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                               _____
                                                                  20030410
                        A1
                               20031030
                                           WO 2003-GB1521
     WO 2003089001
                               20040205
     WO 2003089001
                        A8
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
            LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
            PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT,
            TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
            KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
            FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
            BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     AU 2003217066
                         A1
                               20031103
                                         AU 2003-217066
                                                                 20030410
                               20050309
                                          EP 2003-712454
                                                                 20030410
     EP 1511514
                         A1
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
                        T
                             20051208
                                          JP 2003-585752
     JP 2005537225
                                           US 2005-511480
    US 2007004620
                         A1
                               20070104
                                                                 20051115
                                           GB 2002-8785
                                                              A 20020417
PRIORITY APPLN. INFO.:
                                           WO 2003-GB1521
                                                              W 20030410
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A method of treating or preventing a pathol. condition of the uterus in a female individual comprises administering to the individual at least one agent that prevents  $PGF2\alpha$  having its effect on the FP receptor. Typically, the pathol. condition is uterine cancer, fibroids or endometriosis. For example, a patient suffering from uterine cancer was administered a FP receptor antagonist AL-3138 or AL-8810 and an EP2 receptor antagonist AH-6809 at a dosing quantity and frequency such as that the therapeutic level of active agent at the site of treatment was maintained at a level ideally EC90 but preferably not less than EC50 throughout the treatment period. The treatment was delivered orally or more locally depending on patient acceptability, avoidance of side effects, and systemic bioavailability.

REFERENCE COUNT:

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 6 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN L4

ACCESSION NUMBER:

2003:814548 CAPLUS

DOCUMENT NUMBER:

140:105701

TITLE:

Human ciliary muscle cell responses to FP-class prostaglandin analogs: phosphoinositide hydrolysis, intracellular Ca2+ mobilization and MAP kinase

activation

AUTHOR(S):

Sharif, Naj A.; Crider, Julie Y.; Husain, Shahid;

Kaddour-Djebbar, Ismail; Ansari, Habib R.;

Abdel-Latif, Ata A.

CORPORATE SOURCE:

Molecular Pharmacology Unit, Alcon Research, Ltd.,

Fort Worth, TX, USA

SOURCE:

Journal of Ocular Pharmacology and Therapeutics

(2003), 19(5), 437-455

CODEN: JOPTFU; ISSN: 1080-7683

PUBLISHER:

Mary Ann Liebert, Inc.

DOCUMENT TYPE:

Journal English

LANGUAGE:

Phospholipase C induced phosphoinositide (PI) turnover, intracellular Ca2+ ([Ca2+]i) mobilization and mitogen-activated protein (MAP) kinase activation by FP-class prostaglandin analogs was studied in normal human ciliary muscle (h-CM) cells. Agonist potencies obtained in the PI turnover assays were: travoprost acid ((+)-fluprostenol; EC50 = 2.6±0.8 nM) > bimatoprost acid (EC50 =  $3.6\pm1.2$  nM) > ( $\pm$ )-fluprostenol (EC50

=  $4.3\pm1.3$  nM) >> prostaglandin F2 $\alpha$  (PGF2 $\alpha$ ) (EC50 =  $134\pm17$  nM) > latanoprost acid (EC50 =  $198\pm83$  nM) > S-1033 (EC50 =  $2930\pm1420$  nM) > unoprostone (EC50 =  $5590\pm1490$  nM) > bimatoprost (EC50 =  $9600\pm1100$  nM). Agonist potencies in h-CM cells correlated well with those previously obtained for the cloned human ciliary body-derived FP receptor (r = 0.96, p < 0.001) and that present on h-TM cells (r = 0.94, p < 0.001) $p \! < \! 0.0001)$  . Travoprost acid, PGF2  $\! \alpha$  and unoprostone also stimulated [Ca2+]i mobilization in h-CM cells with travoprost acid being the most potent agonist. MAP kinase activity was stimulated in the h-CM cells with the following rank order of activity (at 100 nM): travoprost acid >  $PGF2\alpha$  > latanoprost acid > PGD2 > bimatoprost > latanoprost = bimatoprost acid = fluprostenol > PGE2 = S-1033 > unoprostone > PGI2. PI turnover, [Ca2+]i mobilization and MAP kinase activation induced by several of these agonists was blocked by the FP receptor antagonist, AL-8810 (11 $\beta$ -fluoro-15-epiindanyl PGF2 $\alpha$ ) (e.g., Ki = 5.7  $\mu$  M vs. PI turnover). These studies have characterized the biochem. and pharmacol. properties of the native FP prostaglandin receptor present on h-CM cells using three signal transduction mechanism assays and a broad panel of FP-class agonist analogs (including free acids of bimatoprost, travoprost and latanoprost) and the FP receptor antagonist, AL-8810. THERE ARE 62 CITED REFERENCES AVAILABLE FOR THIS 62 REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT ANSWER 7 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN 2003:12026 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: 138:298026 Real-time intracellular Ca2+ mobilization by TITLE: travoprost acid, bimatoprost, unoprostone, and other analogs via endogenous mouse, rat, and cloned human FP prostaglandin receptors Kelly, Curtis R.; Williams, Gary W.; Sharif, Najam A. AUTHOR (S): CORPORATE SOURCE: Molecular Pharmacology Unit, Pharmaceutical Products Research, Alcon Research, Ltd., Fort Worth, TX, USA Journal of Pharmacology and Experimental Therapeutics SOURCE: (2003), 304(1), 238-245 CODEN: JPETAB; ISSN: 0022-3565 PUBLISHER: American Society for Pharmacology and Experimental Therapeutics DOCUMENT TYPE: Journal LANGUAGE: English The ability of a number of prostaglandin  $F2\alpha$  (PGF2 $\alpha$ ) analogs to mobilize intracellular Ca2+ [Ca2+]i and to compete for [3H]PGF2α binding to prostaglandin  $F2\alpha$  receptors (FP) was evaluated. Radioligand binding studies measuring displacement of [3H]PGF2 $\alpha$  by a variety of FP prostaglandin analogs yielded the following rank order of affinities: travoprost acid [(+)-16-m-trifluorophenoxy tetranor PGF2α; (+)-fluprostenol] > bimatoprost acid (17-phenyl-trinor  $PGF2\alpha$ ) » unoprostone (13,14-dihydro-15-keto-20-Et  $PGF2\alpha$ ) = bimatoprost (17-phenyl-trinor PGF2α Et amide) ≥ Lumigan (bimatoprost ophthalmic solution). In FP functional studies, travoprost acid (EC50 = 17.5-37 nM, n = 13), bimatoprost acid (EC50 = 23.3-49.0 nM, n = 13)6-12), unoprostone (EC50 = 306-1270 nM, n = 4-8), bimatoprost (EC50 = 3070 - 3940 nM, n = 4 - 9), and Lumigan (EC50 = 1470 - 3190 nM, n = 5 - 9) concentration dependently stimulated [Ca2+]i mobilization via the rat (A7r5 cells), mouse (3T3 cells), and cloned human ocular FP prostanoid receptors. The rank order of potency of these compds. at the FP receptor of the three species was similar and in good agreement with the determined binding affinities. The agonist effects of these compds. were concentration dependently blocked by the FP receptor-selective antagonist, AL-8810

 $(11\beta-fluoro-15-epi-15-indanyl-tetranor PGF2\alpha)$  (Ki = 0.6-1.3

These studies have demonstrated that bimatoprost, unoprostone, and bimatoprost acid possess direct agonist activities at the rat, mouse, and human FP prostanoid receptor and that travoprost acid is the most

L4

potent of the synthetic FP prostaglandin analogs tested.

REFERENCE COUNT:

THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2007 ACS on STN L4 ANSWER 8 OF 10

ACCESSION NUMBER:

2002:655093 CAPLUS

DOCUMENT NUMBER: TITLE:

137:185354 Preparation of 11β-fluoro-15β-hydroxy

PGF2α analogs as FP receptor antagonists

INVENTOR(S):

Sharif, Najam A.; Griffin, Brenda W.

PATENT ASSIGNEE(S):

Alcon Manufacturing, Ltd., USA

SOURCE:

U.S., 15 pp.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

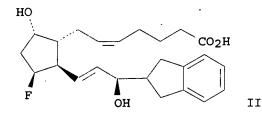
FAMILY ACC. NUM. COUNT:

English

PATENT INFORMATION:

| PATENT NO.             | KIND   | DATE       | API | PLICATION NO. | •         | DATE     |
|------------------------|--------|------------|-----|---------------|-----------|----------|
|                        |        |            |     |               | - <b></b> |          |
| US 6441033             | B1     | 20020827   | US  | 1998-210976   |           | 19981214 |
| US 2003083375          | A1     | 20030501   | US  | 2002-202230   |           | 20020724 |
| US 6649655             | B2     | 20031118   |     |               |           |          |
| PRIORITY APPLN. INFO.: |        |            | US  | 1997-68468P   | P         | 19971222 |
|                        |        |            | US  | 1998-210976   | A1        | 19981214 |
| OTHER SOURCE(S):       | MARPAT | 137:185354 |     |               |           |          |

$$R^{2O}$$
(CH<sub>2</sub>)  $n^{R^{1}}$ 
 $R^{2O}$ 
 $R^{2O}$ 



 $PGF2\alpha$  analogs of formula I [R1 = (substituted) CO2H, (substituted) AB CONH2, (substituted) CH2OH, (substituted) CH2NH2; R2, R3 = H, alkyl, acyl; n = 0, 2; X = alkyl-cycloalkyl, alkyl-heterocyclo, cycloalkyl, heterocyclo, etc.] are prepared for the antagonism of FP receptor-mediated Thus, II was prepared and had >10-fold higher potency than biol. responses. phloretin as an FP receptor antagonist.

REFERENCE COUNT:

THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS 13 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2007 ACS on STN T.4 ANSWER 9 OF 10

ACCESSION NUMBER:

2001:77566 CAPLUS

Ι

DOCUMENT NUMBER:

134:126401

TITLE:

AL-3138 antagonizes FP prostanoid receptor-mediated inositol phosphates generation: comparison with some purported FP antagonists

AUTHOR(S): Sharif, N. A.; Crider, J. Y.; Davis, T. L.

CORPORATE SOURCE: Molecular Pharmacology Unit, Alcon Research Ltd, Fort

Worth, TX, 76134, USA

SOURCE: Journal of Pharmacy and Pharmacology (2000), 52(12),

1529-1539

CODEN: JPPMAB; ISSN: 0022-3573

PUBLISHER: Royal Pharmaceutical Society of Great Britain

DOCUMENT TYPE: Journal LANGUAGE: English

The aim of this study was to pharmacol. characterize the antagonist properties of a novel prostaglandin F2α (PGF2α) analog (11-deoxy-16-fluoro PGF2 $\alpha$ ; AL-3138) using a variety of second-messenger assays of prostaglandin receptor subtypes. comparison was made between AL-3138 and some purported FP receptor antagonists such as PGF2α dimethylamine, PGF2α dimethylamide, glibenclamide and phloretin using the FP receptor-mediated phosphoinositide turnover assay in A7r5 rat thoracic aorta smooth muscle cells and mouse Swiss 3T3 fibroblasts. The potency and efficacy of AL-3138 as an FP receptor agonist were: EC50=72.2±17.9nM (Emax=37%) (n=3) in A7r5 cells and EC50=20.5 $\pm$ 2.8nM (Emax=33%) (n=5) in 3T3 cells. Being a partial agonist, the antagonist potency of AL-3138 against fluprostenol in A7r5 cells was determined to be: Ki=296±17nM (n=3) and  $Kb=182\pm44nM$  (n=5) (-log  $Kb=6.79\pm0.1$ ). AL-3138 exhibited very minimal or no antagonistic effects at EP2, EP4, DP and TP prostaglandin receptors. Both PGF2 $\alpha$  dimethylamide and PGF2 $\alpha$  dimethylamine were inactive as FP receptor antagonists, whereas phloretin and glibenclamide were very weak and had -log Kb values of 5.28±0.09 (n=3) and 3.58±0.32 (n=3), resp. However, phloretin antagonized functional responses of EP2 and DP prostanoid receptors, and also the V1-vasopressin receptor. AL-3138 competed for [3H] PGF2α binding to FP receptors with a relatively high affinity (IC50high=312±95nM) matching its functional antagonist potency. In conclusion, AL-3138 is a more potent

 $PGF2\alpha$  dimethylamide and  $PGF2\alpha$  dimethylamine and is therefore a unique and novel pharmacol. tool to help characterize FP receptor-mediated functions.

and selective FP receptor antagonist than glibenclamide, phloretin,

L4 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

36

ACCESSION NUMBER: 1999:547950 CAPLUS

DOCUMENT NUMBER: 131:281912

REFERENCE COUNT:

TITLE: AL-8810: a novel prostaglandin  $F2\alpha$  analog with

selective antagonist effects at the prostaglandin

THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

 $F2\alpha$  (FP) receptor

AUTHOR(S): Griffin, Brenda W.; Klimko, Peter; Crider, Julie Y.;

Sharif, Najam A.

CORPORATE SOURCE: Molecular Pharmacology Unit, Alcon Laboratories, Inc.,

Fort Worth, TX, USA

SOURCE: Journal of Pharmacology and Experimental Therapeutics

(1999), 290(3), 1278-1284

CODEN: JPETAB; ISSN: 0022-3565

PUBLISHER: American Society for Pharmacology and Experimental

Therapeutics

DOCUMENT TYPE: Journal LANGUAGE: English

AB A novel analog of prostaglandin F2 $\alpha$  [AL-8810; (5Z,13E)-(9S,11S,15R)-9,15-dihydroxy-11-fluoro-15-(2-indanyl)-16,17,18,19,20-pentanor-5,13-prostadienoic acid] has been discovered with uniquely low efficacy (Emax) at the endogenous prostaglandin F2 $\alpha$  receptors (FP receptors) of A7r5 rat thoracic aorta smooth muscle cells and Swiss mouse 3T3 fibroblasts, as assayed by stimulation of phospholipase C activity. AL-8810 has weak agonist potency (EC50) of 261 $\pm$ 44 nM (n = 3) and Emax = 19% (relative to the full FP receptor agonist cloprostenol) in A7r5 cells and EC50 of 186 $\pm$ 63 nM (n = 3) and Emax = 23% in 3T3 fibroblasts. AL-8810 exhibited

properties of an apparent competitive antagonist, i.e., produced parallel dextral shifts of the agonist concentration-response curves and no significant suppression of the maximal agonist-induced response, when the potent, selective FP receptor agonist fluprostenol was used. The inhibition parameters of AL-8810 were: pA2 =  $6.68\pm0.23$  and  $6.34\pm0.09$  (n = 3-4) for A7r5 cells and 3T3 cells, resp., with Schild slopes ranging from 0.80 to 0.92. AL-8810 concentration-dependently antagonized the response to 100 nM fluprostenol (Ki =  $426\pm63$  nM; n = 5) in A7r5 cells. However, even at 10  $\mu$ M concentration, AL-8810 did not significantly inhibit functional responses of TP, DP, EP2, EP4, receptor subtypes in various cell lines. AL-8810 also did not antagonize the phospholipase C-coupled V1-vasopressin receptor in A7r5 cells. These results suggest that AL-8810 is a unique, selective antagonist at the FP receptor, a heretofore unavailable pharmacol. tool that should be valuable for studying FP receptor-mediated functional responses in complex biol. systems.

REFERENCE COUNT:

THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

TOTAL

SESSION

114.75

=> logoff
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:Y
COST IN U.S. DOLLARS
SINCE FILE
ENTRY
FULL ESTIMATED COST
33.94

38

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL
ENTRY SESSION

CA SUBSCRIBER PRICE

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-7.80

STN INTERNATIONAL LOGOFF AT 07:41:45 ON 30 AUG 2007

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FILE 'HOME' ENTERED AT 10:16:40 ON 30 AUG 2007

=> FILE BIOSIS USPAT2 USPATFULL COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.42 0.42

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SINCE FILE TOTAL ENTRY SESSION 3.83 4.25

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http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10511480.str

chain nodes : 6 7 8 9 10 11 12 13 14 15 16 17 18 20 21 22 23 24 ring nodes : 1 2 3 4 5 19 25 26 27 28 29 30 31 32 chain bonds : 1-20 3-23 4-6 5-16 6-7 7-8 8-9 9-10 10-11 11-12 12-13 12-15 13-14 16-17 17-18 18-19 18-21 21-22 23-24 ring bonds : 1-2 1-5 2-3 3-4 4-5 19-25 19-26 25-28 26-27 27-28 27-29 28-32 29-30 30-31 31-32 exact/norm bonds : 1-2 1-5 2-3 3-4 3-23 4-5 18-21 19-25 19-26 25-28 26-27 exact bonds : 1-20 4-6 5-16 6-7 7-8 8-9 9-10 10-11 11-12 13-14 16-17 17-18 18-19 21-22 23-24 normalized bonds : 12-13 12-15 27-28 27-29 28-32 29-30 30-31 31-32

### Match level :

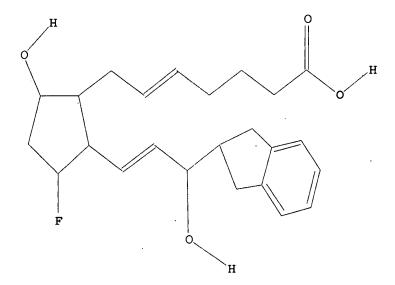
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:Atom 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom

## L1 STRUCTURE UPLOADED

=> D L1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> file biosis uspat2 uspatfull COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.90 5.15

FULL ESTIMATED COST

FILE 'BIOSIS' ENTERED AT 10:19:28 ON 30 AUG 2007 Copyright (c) 2007 The Thomson Corporation

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COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION ·3.83 8.98

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=> S L1

SAMPLE SEARCH INITIATED 10:20:08 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED -11 TO ITERATE

100.0% PROCESSED

11 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

> BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS:

22 TO

PROJECTED ANSWERS:

0 TO

L2

0 SEA SSS SAM L1

=> S L1 FAM FULL

FULL SEARCH INITIATED 10:20:51 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED -

117 TO ITERATE

100.0% PROCESSED

117 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

1 SEA FAM FUL L1 L3

=> D L3

ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN

246246-19-5 REGISTRY RN

Entered STN: 05 Nov 1999 ED

5-Heptenoic acid, 7-[(1R,2R,3S,5S)-2-[(1E,3R)-3-(2,3-dihydro-1H-inden-2-CN yl)-3-hydroxy-1-propenyl]-3-fluoro-5-hydroxycyclopentyl]-, (5Z)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN AL 8810

FS STEREOSEARCH

C24 H31 F O4 MF

SR

BIOSIS, CA, CAPLUS, CHEMCATS, CSCHEM, TOXCENTER, USPAT2, LC STN Files: USPATFULL

Absolute stereochemistry.

Double bond geometry as shown.

## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

10 REFERENCES IN FILE CA (1907 TO DATE)

10 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 70.10 79.08

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FILE COVERS 1907 - 30 Aug 2007 VOL 147 ISS 10 FILE LAST UPDATED: 29 Aug 2007 (20070829/ED)

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=> file biosis uspat2 uspatfull
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SINCE FILE TOTAL ENTRY SESSION 0.47 79.55

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=> s L3

L4 18 L3

=> d L4 1-18

- L4 ANSWER 1 OF 18 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
- AN 2007:217063 BIOSIS
- DN PREV200700213501
- TI Identification of an antagonist that selectively blocks the activity of prostamides (prostaglandin-ethanolamides) in the feline iris.
- AU Woodward, D. F. [Reprint Author]; Krauss, A. H.; Wang, J. W.; Protzman, C. E.; Nieves, A. L.; Liang, Y.; Donde, Y.; Burk, R. M.; Landsverk, K.; Struble, C.
- CS Allergen Inc, Dept Biol Sci, 2525 Dupont Dr, RD3-28, Irvine, CA 92612 USA woodward\_david@allergan.com
- SO British Journal of Pharmacology, (FEB 2007) Vol. 150, No. 3, pp. 342-352. CODEN: BJPCBM. ISSN: 0007-1188.
- DT Article
- LA English
- ED Entered STN: 28 Mar 2007 Last Updated on STN: 11 Jul 2007

- L4 ANSWER 2 OF 18 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
- AN 2006:568804 BIOSIS
- DN PREV200600552624
- TI Mechanisms regulating spontaneous contractions in the bovine epididymal
- AU Mewe, Marco [Reprint Author]; Bauer, Christiane K.; Schwarz, Juergen R.; Middendorff, Ralf
- CS Univ Hamburg, Inst Angew Physiol, Univ Klinikum Hamburg Eppendorf, Martinistr 52, D-20246 Hamburg, Germany mewe@uke.uni-hamburg.de
- SO Biology of Reproduction, (OCT 2006) Vol. 75, No. 4, pp. 651-659. CODEN: BIREBV ISSN: 0006-3363.
- DT Article
- LA English
- ED Entered STN: 27 Oct 2006 Last Updated on STN: 27 Oct 2006
- L4 ANSWER 3 OF 18 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
- AN 2006:177363 BIOSIS
- DN PREV200600166856
- TI Vasoactive responses of U46619, PGF(2 alpha), latanoprost, and travoprost in isolated porcine ciliary arteries.
- AU Vysniauskiene, Ineta; Allemann, Reto; Flammer, Josef; Haefliger, Ivan O. [Reprint Author]
- CS Univ Eye Clin, Lab Ocular Pharmacol and Physiol, Mittlere Str 91, POB, CH-4012 Basel, Switzerland
- SO IOVS, (JAN 2006) Vol. 47, No. 1, pp. 295-298. CODEN: IOVSDA. ISSN: 0146-0404.
- DT Article
- LA English
- ED Entered STN: 9 Mar 2006 Last Updated on STN: 9 Mar 2006
- L4 ANSWER 4 OF 18 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
- AN 2005:506429 BIOSIS
- DN PREV200510302094
- TI Vasoactive responses of U46619, PGF2alpha, latanoprost, and travoprost in isolated porcine ciliary arteries: Effect of SQ29548 and AL-8810.
- AU Haefliger, I. O. [Reprint Author]; Vysniauskiene, I.; Flammer, J.
- CS Univ Eye Clin, Lab Ocular Pharmacol and Physiol, Basel, Switzerland
- SO IOVS, (APR 2004) Vol. 45, No. Suppl. 1, pp. U778.

  Meeting Info.: Annual Meeting of the Association-for-Research-in-Visionand-Ophthalmology. Ft Lauderdale, FL, USA. April 24 -29, 2004. Assoc Res
  Vis & Ophthalmol.
  - CODEN: IOVSDA. ISSN: 0146-0404.
- DT Conference; (Meeting) Conference; (Meeting Poster)
- LA English
- ED Entered STN: 23 Nov 2005
  - Last Updated on STN: 23 Nov 2005
- L4 ANSWER 5 OF 18 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
- AN 2005:506423 BIOSIS
- DN PREV200510302088
- TI Human ciliary muscle cell FP prostaglandin receptor activation by bimatoprost and other FP agonist prostaglandin analogues.
- AU Sharif, N. A. [Reprint Author]; Crider, J.; Husain, S.; Ansari, H.; Kaddour-Djebbar, I.; Abdel-Latif, A.
- CS Alcon Res Ltd, Mol Pharmacol R219, Ft Worth, TX USA
- SO IOVS, (APR 2004) Vol. 45, No. Suppl. 1, pp. U777.

  Meeting Info.: Annual Meeting of the Association-for-Research-in-Visionand-Ophthalmology. Ft Lauderdale, FL, USA. April 24 -29, 2004. Assoc Res
  Vis & Ophthalmol.
  - CODEN: IOVSDA. ISSN: 0146-0404.
- DT Conference; (Meeting)

Conference; (Meeting Poster)

- LA English
- ED Entered STN: 23 Nov 2005 Last Updated on STN: 23 Nov 2005
- L4 ANSWER 6 OF 18 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
- AN 2005:289224 BIOSIS
- DN PREV200510079859
- TI Acute effects of PGF(2 alpha) on MMP-2 secretion from human ciliary muscle cells: A PKC- and ERK-dependent process.
- AU Husain, Shahid [Reprint Author]; Jafri, Farahdiba; Crosson, Craig E.
- CS Storm Eye Inst, 167 Ashley Ave, Charleston, SC 29425 USA husain@musc.edu
- SO IOVS, (MAY 2005) Vol. 46, No. 5, pp. 1706-1713. CODEN: IOVSDA. ISSN: 0146-0404.
- DT Article
- LA English
- ED Entered STN: 4 Aug 2005 Last Updated on STN: 4 Aug 2005
- L4 ANSWER 7 OF 18 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
- AN 2004:26014 BIOSIS
- DN PREV200400024400
- TI RHO KINASE AND CAT LOWER ESOPHAGEAL SPHINCTER (LES) TONE.
- AU Cao, Weibiao [Reprint Author]; Harnett, Karen M. [Reprint Author]; Cheng, Ling [Reprint Author]; Behar, Jose [Reprint Author]; Biancani, Piero [Reprint Author]
- CS Providence, RI, USA
- Digestive Disease Week Abstracts and Itinerary Planner, (2003) Vol. 2003, pp. Abstract No. S1139. e-file.

  Meeting Info.: Digestive Disease 2003. FL, Orlando, USA. May 17-22, 2003. American Association for the Study of Liver Diseases; American Gastroenterological Association; American Society for Gastrointestinal Endoscopy; Society for Surgery of the Alimentary Tract.
- LA English
- ED Entered STN: 31 Dec 2003 Last Updated on STN: 31 Dec 2003
- L4 ANSWER 8 OF 18 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
- AN 2003:578306 BIOSIS
- DN PREV200300583842
- TI Human ciliary muscle cell responses to FP-class prostaglandin analogs: Phosphoinositide hydrolysis, intracellular Ca2+ mobilization and MAP kinase activation.
- AU Sharif, Naj A. [Reprint Author]; Crider, Julie Y.; Husain, Shahid; Kaddour-Djebbar, Ismail; Ansari, Habib R.; Abdel-Latif, Ata A.
- CS Alcon Research, Ltd., 6201 South Freeway, Fort Worth, TX, 76134-2099, USA naj.sharif@alconlab.com
- SO Journal of Ocular Pharmacology and Therapeutics, (October 2003) Vol. 19, No. 5, pp. 437-455. print. ISSN: 1080-7683.
- DT Article
- LA English
- ED Entered STN: 10 Dec 2003 Last Updated on STN: 10 Dec 2003
- L4 ANSWER 9 OF 18 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
- AN 2002:514940 BIOSIS
- DN PREV200200514940
- TI Agonist activity of bimatoprost, travoprost, latanoprost, unoprostone isopropyl ester and other prostaglandin analogs at the cloned human ciliary body FP prostaglandin receptor.
- AU Sharif, N. A. [Reprint author]; Kelly, C. R.; Crider, J. Y.

```
Molecular Pharmacology Unit, Alcon Research, Ltd., 6201 South Freeway,
CS
     R2-19, Fort Worth, TX, 76134-2099, USA
     naj.sharif@alconlabs.com
     Journal of Ocular Pharmacology and Therapeutics, (August, 2002) Vol. 18,
SO
     No. 4, pp. 313-324. print.
     ISSN: 1080-7683.
     Article
DT
     English
LA
ED
     Entered STN: 2 Oct 2002
     Last Updated on STN: 5 Dec 2002
     ANSWER 10 OF 18 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on
L4
     STN
ΑN
     2002:143544 BIOSIS
     PREV200200143544
DN
     Bimatoprost and its free acid are prostaglandin FP receptor agonists.
TI
ΑU
     Sharif, Najam A. [Reprint author]; Williams, Gary W.; Kelly, Curtis R.
CS
     Molecular Pharmacology Unit, Alcon Research, Ltd., 6201 South Freeway,
     Fort Worth, TX, 76134, USA
     naj.sharif@alconlabs.com
     European Journal of Pharmacology, (7 December, 2001) Vol. 432, No. 2-3,
SO
     pp. 211-213. print.
     CODEN: EJPHAZ. ISSN: 0014-2999.
DT
     Article
     English
LA
     Entered STN: 14 Feb 2002
ED
     Last Updated on STN: 26 Feb 2002
     ANSWER 11 OF 18 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on
L4
     STN
AN
     1999:439459 BIOSIS
DN
     PREV199900439459
     AL-8810: A novel prostaglandin F2alpha analog with selective antagonist
ΤI
     effects at the prostaglandin F2alpha (FP) receptor.
     Griffin, Brenda W.; Klimko, Peter; Crider, Julie Y.; Sharif, Najam A.
     [Reprint author]
     Molecular Pharmacology Unit, Alcon Laboratories, Inc., R2-19, 6201 South
     Freeway, Fort Worth, TX, 76134-2099, USA
     Journal of Pharmacology and Experimental Therapeutics, (Sept., 1999) Vol.
     290, No. 3, pp. 1278-1284. print.
     CODEN: JPETAB. ISSN: 0022-3565.
DT
     Article
LA
     English
     Entered STN: 18 Oct 1999
ED
     Last Updated on STN: 18 Oct 1999
    ANSWER 12 OF 18 USPAT2 on STN
L4
AN
       2003:120891 USPAT2
TI
       11β-fluoro 15β-hydroxy PGF2α analogs as FP receptor
       antagonists
       Sharif, Najam A., Arlington, TX, United States
IN
       Griffin, Brenda W., Colleyville, TX, United States
       Alcon Manufacturing, Ltd., Fort Worth, TX, United States (U.S.
PA
       corporation)
PΙ
       US 6649655
                           B2 20031118
       US 2002-202230
                               20020724 (10)
AΤ
       Continuation of Ser. No. US 1998-210976, filed on 14 Dec 1998, now
RLI
       patented, Pat. No. US 6441033
PRAI
       US 1997-68468P
                           19971222 (60)
DT
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INCL
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       INCLS: 514/573.000
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NCL

NCLM: 514/530.000

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514/573.000; 514/613.000; 514/659.000; 514/729.000
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              A61K0031-557 [ICM, 7]
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              A61K0031-00 [I,C*]; A61K0031-00 [I,A]; A61K0031-185 [I,C*];
       TPCR
              A61K0031-192 [I,A]; A61K0031-21 [I,C*]; A61K0031-216 [I,A];
              A61K0031-557 [I,C*]; A61K0031-5575 [I,A]
EXF
       514/530; 514/573
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L4
     ANSWER 13 OF 18 USPATFULL on STN
AN
       2007:5422 USPATFULL
       Fp receptor antagonists or pgf2 alpha antagonists for treating
TI
       pathological conditions of the uterus
       Jabbour, Henry Nicolas, Edinburgh, UNITED KINGDOM
IN
       Critchley, Hilary Octavia Dawn, Edinburgh, UNITED KINGDOM
       Milne, Stuart Angus, Edinburgh, UNITED KINGDOM
       US 2007004620
                           A1 20070104
PΙ
                           A1 20030410 (10)
       US 2003-511480
AΤ
       WO 2003-GB1521
                               20030410
                               20051115 PCT 371 date
PRAI
       GB 2002-8785
                           20020417
DΤ
       Utility
FS
       APPLICATION
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INCL
       INCLS: 514/014.000; 514/015.000; 514/016.000; 514/573.000; 514/569.000;
              514/613.000
NCL
       NCLM:
              514/012.000
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       NCLS:
              514/613.000
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IC
       IPCI
              A61K0031-557 [I,A]; A61K0031-16 [I,A]
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              A61K0031-64 [I,C*]; A61K0031-64 [I,A]; A61K0038-04 [I,C*];
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              A61K0038-16 [I,A]; A61K0039-395 [I,C*]; A61K0039-395 [I,A];
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              A61P0015-00 [I,C*]; A61P0015-00 [I,A]; A61P0035-00 [I,C*];
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 14 OF 18 USPATFULL on STN
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       2006:202061 USPATFULL
       Ip receptor antagonists for the treatment of pathological uterine
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       conditions
       Critchley, Hilary Octavia Dawn, Edinburg, UNITED KINGDOM
IN
       Jabbour, Henry Nicolas, Edinburgh, UNITED KINGDOM
                               20060803
PT
       US 2006171945
                           A1
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       US 2004-545478
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 15 OF 18 USPATFULL on STN
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ΤI
       Jabbour, Henry Nicolas, Edinburgh, UNITED KINGDOM
IN
       Critchley, Hilary Octavia Dawn, Edinburgh, UNITED KINGDOM
       Milne, Stuart Angus, Edinburgh, UNITED KINGDOM
PΙ
       US 2006166872
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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     ANSWER 16 OF 18 USPATFULL on STN
       2006:190559 USPATFULL
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       Embryo development and survival
TI
       Schrick, F. Neal, Knoxville, TN, UNITED STATES
IN
       University of Tennessee Research Foundation (U.S. corporation)
PA
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       US 2006162003
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                               20060720
ΑI
       US 2005-39662
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       Sharif, Najam A., Arlington, TX, UNITED STATES
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       US 2003083375
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                            A1 20030501
                            B2 20031118
       US 6649655
       US 2002-202230
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NCL
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              A61K0031-00 [I,C*]; A61K0031-00 [I,A]; A61K0031-185 [I,C*];
       IPCR
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              A61K0031-557 [I,C*]; A61K0031-5575 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 18 OF 18 USPATFULL on STN
T.4
       2002:217306 USPATFULL
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       Sharif, Najam A., Arlington, TX, United States
IN
       Griffin, Brenda W., Colleyville, TX, United States
       Alcon Manufacturing, Ltd., Fort Worth, TX, United States (U.S.
PA
       corporation)
ΡI
       US 6441033
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EXF
       514/530; 514/573
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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COST IN U.S. DOLLARS
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FULL ESTIMATED COST
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STN INTERNATIONAL LOGOFF AT 10:25:47 ON 30 AUG 2007

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specific topic.

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\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* STN Columbus \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

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COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

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FILE 'MEDLINE' ENTERED AT 10:27:20 ON 30 AUG 2007

FILE 'BIOSIS' ENTERED AT 10:27:20 ON 30 AUG 2007 Copyright (c) 2007 The Thomson Corporation

=> e prostaglandin

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|-----|--------|---|-----------------------------|
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| E3  | 239123 | > | PROSTAGLANDIN/BI            |
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| E12 | 2      |   | PROSTAGLANDINABORT/BI       |

=> s (prostaglandin or FP) antagonist
MISSING OPERATOR FP) ANTAGONIST
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

- => s (prostaglandin or FP) (A) antagonist
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L2 192 L1 AND UTERUS

=> S L1 (S) uterus

L3 18 L1 (S) UTERUS

=> S L1 (S) fibroids

L5 0 L1 (S) FIBROIDS

=> D L3 1

- L3 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN
- AN 2006:707249 CAPLUS
- DN 145:117453
- TI Embryo development and survival
- IN Schrick, F. Neal
- PA University of Tennessee Research Foundation, USA
- SO U.S. Pat. Appl. Publ., 8 pp.

CODEN: USXXCO DTPatent English LA FAN.CNT 1 PATENT NO. DATE APPLICATION NO. DATE KIND ----\_\_\_\_\_ 20050119 US 2006162003 20060720 US 2005-39662 **A**1 PΙ WO 2006-US1091 A2 20060727 20060113 WO 2006078535 20061214 'WO 2006078535 Α3 AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM 20050119 PRAI US 2005-39662 Α => D L3 1 ibib abs CAPLUS COPYRIGHT 2007 ACS on STN ANSWER 1 OF 18 2006:707249 CAPLUS ACCESSION NUMBER: 145:117453 DOCUMENT NUMBER: Embryo development and survival TITLE: Schrick, F. Neal INVENTOR(S): University of Tennessee Research Foundation, USA PATENT ASSIGNEE(S): U.S. Pat. Appl. Publ., 8 pp. SOURCE: CODEN: USXXCO DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: PATENT INFORMATION: KIND DATE APPLICATION NO. PATENT NO. \_ \_ \_ \_ \_\_\_\_\_ \_\_\_\_\_\_ US 2006162003 Α1 20060720 US 2005-39662 20050119 WO 2006-US1091 WO 2006078535 Α2 20060727 20060113 WO 2006078535 A3 20061214 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, VII, 72, 7M, 7M VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM US 2005-39662 A 20050119 PRIORITY APPLN. INFO.: An embryo that is transferred into the uterus of a recipient female is protected from embryotoxic effects of prostaglandin F2a by

=> D L3 1-18 IBIB abs

exposing the embryo to a prostaglandin antagonist.

ACCESSION NUMBER: 2006:707249 CAPLUS

145:117453 DOCUMENT NUMBER:

TITLE: Embryo development and survival

Schrick, F. Neal INVENTOR(S):

University of Tennessee Research Foundation, USA PATENT ASSIGNEE(S):

U.S. Pat. Appl. Publ., 8 pp. SOURCE:

CODEN: USXXCO

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

|                                |      | NO. |      |                            | KIN         |     | DATE           |               |     | APPL | ICAT | ION I | NO.      |          |     | ATE  |     |
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| US 2006162003                  |      |     |      |                            | A1 20060720 |     |                | US 2005-39662 |     |      |      |       |          | 20050119 |     |      |     |
| WO 2006078535<br>WO 2006078535 |      |     |      | A2 20060727<br>A3 20061214 |             |     | WO 2006-US1091 |               |     |      |      |       | 20060113 |          |     |      |     |
|                                | W:   | ΑE, | AG,  | ΆL,                        | AM,         | ΑT, | ΑU,            | ΑZ,           | BA, | BB,  | BG,  | BR,   | BW,      | BY,      | ΒZ, | CA,  | CH, |
|                                |      | CN, | co,  | CR,                        | CU,         | CZ, | DE,            | DK,           | DM, | DZ,  | EC,  | EE,   | EG,      | ES,      | FI, | GB,  | GD, |
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|                                |      | KZ, | LC,  | LK,                        | LR,         | LS, | LT,            | LU,           | LV, | LY,  | MA,  | MD,   | MG,      | MK,      | MN, | MW,  | MX, |
|                                |      | MZ, | NA,  | NG,                        | NI,         | NO, | NZ,            | OM,           | PG, | PH,  | ΡĹ,  | PT,   | RO,      | RU,      | SC, | SD,  | SE, |
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|                                |      | CF, | CG,  | CI,                        | CM,         | GA, | GN,            | GQ,           | GW, | ML,  | MR,  | ΝE,   | SN,      | TD,      | TG, | BW,  | GH, |
|                                |      |     |      |                            |             |     | NA,            |               |     |      |      |       |          |          |     |      |     |
|                                |      | •   | •    |                            | RU,         |     |                | •             |     |      |      |       |          |          |     |      |     |
| RTTY                           | APP. | IN. | INFO | . •                        |             |     |                |               | 1   | US 2 | 005- | 3966  | 2        |          | A 2 | 0050 | 119 |

PRIORITY APPLN. INFO.: US 2005-39662 An embryo that is transferred into the uterus of a recipient female is protected from embryotoxic effects of prostaglandin  $F2\alpha$  by exposing the embryo to a prostaglandin antagonist.

ANSWER 2 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:855824 CAPLUS

DOCUMENT NUMBER: 139:354461

TITLE: FP receptor antagonists or PGF2α antagonists for

treating pathological conditions of the uterus

שתעת

Milne, Stuart Angus; Jabbour, Henry Nicolas INVENTOR(S):

Medical Research Council, UK PATENT ASSIGNEE(S):

PCT Int. Appl., 59 pp. SOURCE:

CODEN: PIXXD2

Patent DOCUMENT TYPE:

LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION: DAMENTO NO T T NTD ADDITION NO

| PATENT NO. K. |               |      |     |     | KINI        | IND DATE |      |                |     |      |       |       |          |     | DATE |       |              |
|---------------|---------------|------|-----|-----|-------------|----------|------|----------------|-----|------|-------|-------|----------|-----|------|-------|--------------|
|               |               |      |     |     |             | -        |      |                |     |      |       |       |          |     | -    |       | <del>-</del> |
| WO            | 2003          | 0890 | 01  |     | <b>A1</b>   |          | 2003 | 1030           | 1   | WO 2 | 003-0 | GB15: | 21       |     | 20   | 00304 | 410          |
| WO            | 2003          | 0890 | 01  |     | A8          |          | 2004 | 0205           |     |      | *     |       |          |     |      |       |              |
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|               |               | CO,  | CR, | CU, | CZ,         | DE,      | DK,  | DM,            | DZ, | EC,  | EE,   | ES,   | FI,      | GB, | GD,  | GE,   | GH,          |
|               |               | GM,  | HR, | HU, | ID,         | IL,      | IN,  | ıs,            | JP, | KΕ,  | KG,   | KΡ,   | KR,      | ΚZ, | LC,  | LK,   | LR,          |
|               |               | LS,  | LT, | LU, | LV,         | MA,      | MD,  | MG,            | MK, | MN,  | MW,   | MX,   | MZ,      | NI, | NO,  | NZ,   | OM,          |
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|               |               | TZ,  | UA, | UG, | US,         | UZ,      | VC,  | VN,            | YU, | ZA,  | ZM,   | ZW    |          |     | •    |       |              |
|               | RW:           | GH,  | GM, | KΕ, | LS,         | MW,      | MZ,  | SD,            | SL, | SZ,  | TZ,   | UG,   | ZM,      | ZW, | AM,  | ΑZ,   | BY,          |
|               |               | KG,  | KZ, | MD, | RU,         | TJ,      | TM,  | ΑT,            | BE, | BG,  | CH,   | CY,   | CZ,      | DE, | DK,  | EE,   | ES,          |
|               |               | FI,  | FR, | GB, | GR,         | ΗU,      | ΙE,  | ΙT,            | LU, | MC,  | NL,   | PT,   | RO,      | SE, | SI,  | SK,   | TR,          |
|               |               | BF,  | ВJ, | CF, | CG,         | CI,      | CM,  | GΑ,            | GN, | GQ,  | GW,   | ML,   | MR,      | ΝE, | SN,  | TD,   | TG           |
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|               | R:            | AT,  | BE, | CH, | DE,         | DK,      | ES,  | FR,            | GB, | GR,  | IT,   | LI,   | LU,      | NL, | SE,  | MC,   | PT,          |

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK Т JP 2003-585752 JP 2005537225 20051208 20030410 A1 20070104 US 2005-511480 20051115 US 2007004620 PRIORITY APPLN. INFO.: GB 2002-8785 A 20020417 WO 2003-GB1521 W 20030410

AB A method of treating or preventing a pathol. condition of the uterus in a female individual comprises administering to the individual at least one agent that prevents PGF2α having its effect on the FP receptor. Typically, the pathol. condition is uterine cancer, fibroids or endometriosis. For example, a patient suffering from uterine cancer was administered a FP receptor antagonist AL-3138 or AL-8810 and an EP2 receptor antagonist AH-6809 at a dosing quantity and frequency such as that the therapeutic level of active agent at the site of treatment was maintained at a level ideally EC90 but preferably not less than EC50 throughout the treatment period. The treatment was delivered orally or more locally depending on patient acceptability, avoidance of side effects, and systemic bioavailability.

REFERENCE COUNT:

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN

8

ACCESSION NUMBER:

2002:794594 CAPLUS

DOCUMENT NUMBER:

138:297521

TITLE:

Effect of polyphloretin phosphate on the response of non-gravid rat uterus to "folkloric" and "standard"

oxytocics in vitro

AUTHOR(S):

Adebiyi, A.; Prasad, R. N. V.; Adaikan, P. G. Department of Obstetrics and Gynaecology, National

CORPORATE SOURCE:

University of Singapore, Singapore, 119260, Singapore Prostaglandins, Leukotrienes and Essential Fatty Acids

SOURCE:

(2002), 66(5&6), 499-503

CODEN: PLEAEU; ISSN: 0952-3278

PUBLISHER:

Elsevier Science Ltd.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB Polyphloretin phosphate (PPP) was reported by previous workers to be a specific antagonist of prostaglandin (PGE1, PGE2 & PGF2α)-induced contractions of isolated jird colon, gerbil colon, guinea pig ileum, and rabbit jejunum. In the present study, the authors examined the effect of PPP on utero-tonic activities of crude papaya latex (a folkloric oxytocic), PGF2α, oxytocin, acetylcholine, and 5-hydroxytryptamine (standard oxytocics) on non-gravid, estrogen-primed (50 μg/kg) rats in vitro. The effect of PPP on the oxytocics was evaluated qual. by incubating the tissues in PPP (25 - 400 μg/mL) for 20 min prior to the addition of a constant concentration of each oxytocic. PPP concentration dependently

inhibited the contractile response of the uterine muscles to all the oxytocics. The inhibition was reversible after washing out the drugs. Results of the present study suggest that PPP is a non-specific and reversible antagonist of the response of non-gravid rat uterine smooth muscle to oxytocics in vitro. The specificity of PPP as a prostaglandin antagonist could therefore be species/tissue dependent.

REFERENCE COUNT:

14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

1990:605357 CAPLUS

DOCUMENT NUMBER:

113:205357

TITLE:

Comparison of antiprogestin stimulation of uterine

prostaglandin synthesis in vitro

AUTHOR(S):

Brooks, J.; Holland, P.; Kelly, R.

CORPORATE SOURCE:

Cent. Reprod. Biol., Univ. Edinburgh, Edinburgh, EH3

9EW, UK

SOURCE:

Prostaglandins, Leukotrienes and Essential Fatty Acids

(1990), 40(3), 191-7

CODEN: PLEAEU; ISSN: 0952-3278

DOCUMENT TYPE: Journal LANGUAGE: English

Progesterone has an inhibitory effect on prostaglandin (PG) synthesis in uterine tissue, and this effect is reversible with progesterone receptor antagonists. Although antiprogesterone steroids, such as RU 486 (Mifepristone), are effective at inducing abortion in women, they have an improved efficacy when used with exogenous synthetic prostaglandin. In the quinea pig such antagonists sensitize the uterus but do not result in increased myometrial activity and therefore may not induce endogenous PG synthesis. In this study the effects of antiprogestins on a preparation of rat uterus perifused with progesterone were studied. ZK 98734 caused a rapid and sustained increase in 6-oxoPGF synthesis which rose within the first This rapid response suggested that some mechanism other than the induction of fresh protein synthesis was involved. A similar increase was not seen with pregnant guinea pig myometrium/decidua perifused in a similar manner, suggesting that some other mechanism was responsible for the relatively low PG production in pregnancy. However increases in 6-oxoPGF in response to antiprogestins were recorded when pregnant guinea pig decidua/myometrium was incubated for 4 h. In these expts. 1 µM ZK 98734 and 1  $\mu M$  ZK 98299 (Onapristone) gave a 2.7-fold increase in PG production, whereas RU 486 gave a 1.6-fold increase. Both 1 μM ZK 98734 AND 1  $\mu M$  ZK 98299 also gave a significant increase in PGE production but no increase in PGF was observed These findings suggest that some antiprogestins might have a better effect on the stimulation of endogenous PG synthesis or on the rate of catabolism of prostanoids.

ANSWER 5 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN L3

1989:109078 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER:

110:109078

TITLE:

Fertility control and uterine therapy in dogs with

APPLICATION NO.

DATE

luteinizing hormone releasing hormone antagonists

Vickery, Brian H. INVENTOR(S):

PATENT ASSIGNEE(S):

Syntex (U.S.A.), Inc., USA

SOURCE: Eur. Pat. Appl., 18 pp.

CODEN: EPXXDW

DATE

Patent

KIND

DOCUMENT TYPE:

LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

|      | EP 268066             | A2      | 19880525      | EP 1987-114868        | 19871012          |
|------|-----------------------|---------|---------------|-----------------------|-------------------|
|      | EP 268066             |         |               |                       |                   |
|      | R: AT, BE, CH,        |         |               |                       |                   |
|      | AU 8779814            | Α       | 19880421      | AU 1987-79814         | 19871015          |
| PRIO | RITY APPLN. INFO.:    |         |               | US 1986-920483        | A 19861017        |
| AB   | An effective amount   | of an   | LH-RH antago: | nist is administered  | to female dogs to |
|      | control fertility and | nd to t | reat hormona  | lly-mediated uterine  | infections.       |
|      | Beagle bitches were   | mated a | and treated   | on day 1 or 2 of ges  | tation with a     |
|      | low dose of [N-Ac-D   | -Na1(2) | 1, D-p-Cl-Ph  | e2, D-Trp3, D-Deh6, 1 | D-Ala10]LH-RH     |
|      | (I; 2 mg/kg) alone,   |         |               |                       |                   |
|      |                       |         |               | noprosta-4,5,13-tran  | strienoic acid    |
|      |                       |         |               | combination of the    |                   |
|      |                       |         |               | nued for both agents  |                   |
|      |                       |         |               | A pharmaceutical com  |                   |
|      |                       |         |               | , benzyl alc. 9.0, g  |                   |
|      |                       |         |               | ng, and strrile H2O 1 |                   |
|      | propyrene grycor zo.  | o.o, ma |               | ng, and believe neo i | . 0 11111         |

ANSWER 6 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1986:418764 CAPLUS

DOCUMENT NUMBER:

105:18764

TITLE:

The stimulation of prostaglandin production by two antiprogesterone steroids in human endometrial cells

Kelly, R. W.; Healy, D. L.; Cameron, M. J.; Cameron, AUTHOR (S):

I. T.; Baird, D. T.

Cent. Reprod. Biol., Univ. Edinburgh, Edinburgh, EH3 CORPORATE SOURCE:

Journal of Clinical Endocrinology and Metabolism SOURCE:

(1986), 62(6), 1116-23

CODEN: JCEMAZ; ISSN: 0021-972X

DOCUMENT TYPE: Journal LANGUAGE: English

When endometrial stromal cells and isolated endometrial glands obtained AB from women during days 6-26 of the ovarian cycle were cultured for 24 h in the presence of the progestogen antagonists RU 486 [84371-65-3] and ZK

[96285-52-8], both steroids stimulated PGF2 $\alpha$  [551-11-1]

production by stromal cells in a dose-dependent manner, in doses ranging from 10-1000 nM. Progesterone [57-83-0] (100 nM) inhibited RU 486

stimulation, except at the highest dose of antiprogestin. PGE2 [363-24-6] was produced in smaller amts. than PGF2 $\alpha$ , but, when measurable, it also increased in the presence of RU 486. In contrast, RU

486 did not increase prostaglandin (PG) production by endometrial glands. an experiment to determine the effect of pretreatment, stromal cells were

for 24 h with 1000 nM progesterone or RU 486 (all with 100 nM 17β-estradiol) with either 30 or 6 μM arachidonic acid. These 6 batches of cells were incubated for a 2nd 24 h with either progesterone or antiprogestin. Cells pretreated with the higher dose of arachidonic acid had a marked increase in PGF2α production during the 2nd 24 h only when also pretreated with progesterone. Pretreatment with progesterone also allowed a greater conversion of PG to its 13,14-dihydro-15-keto metabolite. Antiprogesterone steroids may act as menstrual regulators by stimulating endogenous PG production within the endometrial stromal cells and inhibiting PG catabolism.

ANSWER 7 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN

1982:466680 CAPLUS ACCESSION NUMBER:

97:66680 DOCUMENT NUMBER:

TITLE: Antioxytocic and antiprostaglandin-releasing effects

of oxytocin antagonists in pregnant rats and pregnant

human myometrial strips

Chan, W. Y.; Powell, Andrea M.; Hruby, Victor J. AUTHOR(S): Med. Coll., Cornell Univ., New York, NY, 10021, USA CORPORATE SOURCE:

Endocrinology (1982), 111(1), 48-54 SOURCE:

CODEN: ENDOAO; ISSN: 0013-7227

DOCUMENT TYPE: Journal English LANGUAGE:

Two highly potent oxytocin (OT) [50-56-6] antagonists,

1-penicillamine, 4-threonine]OT ([Pen1, Thr4]OT) [78578-24-2] and [1-penicillamine, 2-phenylalanine, 4-threonine]OT ([Pen1, Phe2, Thr4]OT)

[78578-27-5] were examined for their antioxytocic activity in

21-22-day-pregnant rats and on isolated human myometrial strips obtained from term pregnant patients at cesarean section for childbirth. Their effects on prostaglandin (PG) synthesis and OT-stimulated PG synthesis in uterine slices from pregnant rats were also studied. The OT antagonists were effective inhibitors of the OT responses in pregnant rats and on pregnant human myometrial strips. The 2 OT antagonists has no agonistic activity on PG release at a dose range that was antioxytocic. When administered together with OT, the PG-releasing action of OT was inhibited. Thus, [Pen1,Thr4]OT and [Pen1,Phe2,Thr4]OT are effective inhibitors of both the uterotonic and PG-releasing actions of OT.

ANSWER 8 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN L3

ACCESSION NUMBER: 1982:15378 CAPLUS

DOCUMENT NUMBER: 96:15378

Reduction of fertility of mice by the intrauterine TITLE:

injection of prostaglandin antagonists

Biggers, J. D.; Baskar, J. F.; Torchiana, D. F. AUTHOR (S):

Dep. Physiol., Harvard Med. Sch., Boston, MA, 02115, CORPORATE SOURCE:

USA

Journal of Reproduction and Fertility (1981), 63(2), SOURCE:

365-72

CODEN: JRPFA4; ISSN: 0022-4251

Journal DOCUMENT TYPE: LANGUAGE: English

The intrauterine injection of 7-oxa-13-prostynoic acid [27166-04-7], 18,18,20-trimethyl PGE-2 [80003-51-6], and meclofenamic acid [644-62-2] in mice at the expected times of implantation reduced the number of

implantation sites. Indomethacin was ineffective possibly because it was exposed to high pH during the preparation of the solns. for injection. Apparently, these prostaglandin antagonists exert their antifertility

action at multiple sites involving both the embryo and mother.

ANSWER 9 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

1982:814 CAPLUS

DOCUMENT NUMBER:

CORPORATE SOURCE:

96:814

TITLE:

Effect of a prostaglandin antagonist

, N-0164, on cAMP generation and hydrolysis in the rat

AUTHOR (S):

Vulliemoz, Yvonne; Verosky, Mariagnes; Triner, Lubos

Dep. Anesthesiol., Columbia Univ., New York, NY,

10032, USA

Biochemical Pharmacology (1981), 30(14), 1941-6 SOURCE:

CODEN: BCPCA6; ISSN: 0006-2952

DOCUMENT TYPE:

Journal

LANGUAGE: English

PGE2 [363-24-6] Inhibition of dl-isoproterenol-HCl [949-36-0]-induced cyclic AMP [60-92-4] accumulation in the rat uterus was reversed by N-0164 [60787-00-0] (ED50  $60\mu M)\,.$  At this concentration, N-0164 inhibited cyclic AMP phosphodiesterase [9036-21-9] in broken cell prepns. (ED50 50µM). Theophylline abolished the inhibitory effect of N-0164 on responses to PGE2. The reversal by N-0164 of the PGE2 effect on the cyclic AMP response to isoproterenol was therefore, not due to its prostaglandin antagonistic action, but to inhibition of cyclic AMP-phosphodiesterase. At lower concns., N-0164 selectively inhibited the PGE2-induced contractions of rat uterus (ED50 4µM); the carbachol-induced contractions were inhibited by only 25% by 10mM N-0164. In the rat uterus, N-0164 has therefore at least 2 effects: prostaglandin antagonism and cyclic AMP phosphodiesterase inhibition. The contractile effect of PGE2 was probably dependent on the effect of PGE2 on the

ANSWER 10 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN

isoproterenol-induced rise in cyclic AMP.

ACCESSION NUMBER:

1981:102885 CAPLUS

DOCUMENT NUMBER:

94:102885

TITLE:

C-8-Quaternary prostaglandin analogs

AUTHOR (S):

Temesvari-Major, E.; Gruber, L.; Tomoskozi, I.;

Kovacs, G.; Cseh, G.

CORPORATE SOURCE: SOURCE:

Cent. Res. Inst. Chem., Budapest, H-1525, Hung.

Tetrahedron Letters (1980), 21(41), 4035-8

CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE:

Journal

LANGUAGE:

English

GI

AB A simple and convenient preparation of 11 prostaglandin analogs e.g. I [R = H, R1 = pentyl (II), hexyl (III)] from the spirolactone IV, prepared in good yield from 2-ethoxycarbonylcyclopentanone by sequential alkylation, ketalization, hydrolysis, cyclization, and reduction, is reported. II and III are active prostaglandin antagonists in mouse and rat uteri.

L3 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

1978:131081 CAPLUS

DOCUMENT NUMBER:

88:131081

TITLE:

Inhibition of the contraction activity in the time of

delivery by prostaglandin antagonists

AUTHOR (S):

Kiss, Cs.; Gyory, G.; Benyo, T.; Bagdany, S.; Kurcz,

M.; Virag, S.

CORPORATE SOURCE:

Dep. Obstet. Gynecol., Postgrad. Med. Sch., Budapest,

Hung.

SOURCE:

Congr. Hung. Pharmacol. Soc., [Proc.] (1976), Volume

Date 1974, 2(2, Symp. Prostaglandins), 135-8

CODEN: CPSPDT

DOCUMENT TYPE:

Journal

LANGUAGE:

English

GI

AB In pregnant women in labor, Na salicylate (I Na salt) [54-21-7] inhibited uterus contractions. This effect occurred after 1-1.5 h and lasted 4-6 h. The treatment was successful in 17 cases, whereas in 4 cases, uterus contraction was not diminished. After a 4-6-h pause in contractions, uterine contractions started again their intensity was normal, and the delivery was normal. No fetal asphyxia was observed The use of prostaglandin antagonists to inhibit uterus contractions and thus to delay delivery is discussed.

L3 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

1978:131080 CAPLUS

DOCUMENT NUMBER:

88:131080

TITLE:

The inhibition of contraction activity of the pregnant

uterus by prostaglandin

antagonists

AUTHOR(S):

Gyory, G.; Kiss, C.; Benyo, T.; Bagdany S.; Szalay,

J.; Kurcz, M.; Virag, S.

CORPORATE SOURCE:

Dep. Gynecol. Obstet., Postgrad. Med. Sch., Budapest,

Hung.

SOURCE:

Congr. Hung. Pharmacol. Soc., [Proc.] (1976), Volume

Date 1974, 2(2, Symp. Prostaglandins), 131-4

CODEN: CPSPDT

DOCUMENT TYPE:

Journal

LANGUAGE:

English

GI

CO2H Ι

In pregnant women with threatening and habitual premature delivery or abortion, Na salicylate (I Na salt) [54-21-7] inhibited uteruscontraction. I was able to prevent premature delivery or abortion in most of the patients in which it was tested. The use of prostaglandin antagonists for the prevention of premature delivery or abortion is discussed.

ANSWER 13 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN 1.3

ACCESSION NUMBER:

1977:551763 CAPLUS

DOCUMENT NUMBER:

87:151763

TITLE:

3,4-Disubstituted-1,3,4-thiadiazoline-2,5-diones

INVENTOR(S):

Scribner, Richard Merrill

PATENT ASSIGNEE(S):

du Pont de Nemours, E. I., and Co., USA

SOURCE:

U.S., 26 pp. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO. |   | DATE     |
|------------------------|------|----------|-----------------|---|----------|
|                        |      |          |                 | - |          |
| US 4032533             | A    | 19770628 | US 1976-659511  |   | 19760219 |
| PRIORITY APPLN. INFO.: |      |          | US 1976-659511  | Α | 19760219 |
| GI                     |      |          |                 |   |          |

AB Several 1,3,4-thiadiazolidine analogs of prostaglandins were prepared Thus, 2-methoxy-1,3,4-thiadiazol-5(4H)-one was hydrolyzed to the diketone, which with Et 7-bromo- or -iodoheptanoate gave the heptanoate ester; this with CH2:CHCOC5H11 and PhCH2NMe3OH gave I, which with NaBH4 gave the side-chain secondary alc. (IIa). The Me3C ester (IIb) and the free acid (IIc) analogs were also prepared IIa-c had prostaglandin antagonist activity toward rat uterus; IIa and IIc had antiinflammatory activity; IIc induced contractions in rat stomach.

ANSWER 14 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN L3

ACCESSION NUMBER:

1975:133301 CAPLUS

DOCUMENT NUMBER:

82:133301

Ι

TITLE:

Effects of prostaglandin inhibitors on angiotensin,

oxytocin, and prostaglandin  $F2\alpha$  contractile

effects on the rat uterus during the estrous cycle Baudouin-Legros, Maryvonne; Meyer, P.; Worcel, M. Unit Rech. Physiol. Pharmacol. Vasc. Renale, INSERM

AUTHOR (S): CORPORATE SOURCE: U7, Paris, Fr.

British Journal of Pharmacology (1974), 52(3), 393-9 SOURCE:

CODEN: BJPCBM; ISSN: 0007-1188

DOCUMENT TYPE:

Journal

LANGUAGE:

English

The increased spontaneous contractions and contractile sensitivity to Hypertensin [53-73-6] and oxytocin [50-56-6] in rat isolated uterus in diand proestrus were abolished by indomethacin and polyphloretin phosphate.

The maximum sensitivity of the uterus to  $PGF2\alpha$  [551-11-1] was

not affected by the prostaglandin antagonists.

Apparently, contractions occurring spontaneously or induced by Hypertensin and oxytocin were mediated by endogenous prostaglandin synthesis, whereas those produced by exogenous  $PGF2\alpha$  were not.  $PGF2\alpha$  induced the appearance of contractions in the relatively quiescent metestrous uterus and potentiated Hypertensin-elicited contractions which persisted even after washing out PGF2α.

MEDLINE on STN ANSWER 15 OF 18 ACCESSION NUMBER: 81281999 MEDLINE DOCUMENT NUMBER: PubMed ID: 6268114

TITLE:

Effect of a prostaglandin antagonist,

N-0164, on cAMP generation and hydrolysis in the rat

AUTHOR:

Vulliemoz Y; Verosky M; Triner L

SOURCE:

Biochemical pharmacology, (1981 Jul 15) Vol. 30, No. 14,

pp. 1941-6.

Journal code: 0101032. ISSN: 0006-2952.

PUB. COUNTRY:

ENGLAND: United Kingdom

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

(RESEARCH SUPPORT, NON-U.S. GOV'T)

LANGUAGE: English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

198110

Entered STN: 16 Mar 1990 ENTRY DATE:

Last Updated on STN: 6 Feb 1998 Entered Medline: 25 Oct 1981

L3 ANSWER 16 OF 18 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN

ACCESSION NUMBER:

1982:145295 BIOSIS

DOCUMENT NUMBER:

PREV198273005279; BA73:5279

TITLE:

EFFECT OF A PROSTAGLANDIN ANTAGONIST

N-0164 SODIUM P BENZYL-4-1-OXO-2-4-CHLOROBENZYL-3-

PHENYLPROPYL PHENYL PHOSPHONATE ON CYCLIC AMP GENERATION

AND HYDROLYSIS IN THE RAT UTERUS.

AUTHOR (S):

VULLIEMOZ Y [Reprint author]; VEROSKY M; TRINER L

CORPORATE SOURCE:

DEP ANESTHIOL, COLL PHYSICIANS SURG, 630 W 168TH ST, NEW

YORK, NY 10032, USA

SOURCE:

Biochemical Pharmacology, (1981) Vol. 30, No. 14, pp.

1941-1946.

CODEN: BCPCA6. ISSN: 0006-2952.

DOCUMENT TYPE:

Article

FILE SEGMENT:

RΑ

LANGUAGE:

ENGLISH

N-0164 (sodium-p-benzyl-4-[1-oxo-2-(4-chlorobenzyl)-3phenylpropyl]phenylphosphonate) (20-100  $\mu M$ ), an antagonist of the

contractile effect of prostaglandins, [PG], reversed the PGE2 inhibition of isoproterenol-induced cAMP accumulation in rat uterus. N-0164, at the same concentrations, was a potent cAMP-phosphodiesterase inhibitor in broken cell preparations and potentiated the cAMP response to isoproterenol in intact tissue. The potency of N-0164 to inhibit cAMP-phosphodiesterase and to reverse the effect of PGE2 on the cAMP response to isoproterenol were comparable (EC50[median effective concentration]: 50 and 60  $\mu\text{m}$ , respectively). In the presence of 10 mM

theophylline, N-0164 did not affect the inhibitory effect of PGE2. N-0164

produced similar proportional increases in the cAMP response to isoproterenol in the presence and absence of PGE2. The apparent reversal N-1064 of the PGE2 effect on the cAMP response to isoproterenol is not due to its PG antagonistic action but to inhibition of cAMP-phosphodiesterase. N-1064, at concentrations lower than those inhibiting cAMP-phosphodiesterase, selectively inhibited the PGE2-induced contractions of the rat uterus (EC50, 4  $\mu M$ ), while at higher concentrations it diminished carbachol-induced contractions. In the rat uterus N-1064 has at least 2 effects, PG antagonism and cAMP-phosphodiesterase inhibition, and the contractile effect of PGE2 may be independent of the effect of PGE2 on the isoproterenol-induced rise in cAMP.

L3 ANSWER 17 OF 18 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on

STN

ACCESSION NUMBER:

1978:41775 BIOSIS

DOCUMENT NUMBER:

PREV197814041775; BR14:41775

TITLE:

THE EFFECT OF A PROSTAGLANDIN ANTAGONIST

N-0164 SODIUM P BENZYL-4-1-OXO-2-4-CHLOROBENZYL-3-PHENYLPROPYLPHENYL PHOSPHONATE ON CONTRACTILITY AND THE

CYCLIC AMP SYSTEM OF RAT UTERUS.

AUTHOR (S):

VULLIEMOZ Y; VEROSKY M; TRINER L

SOURCE:

Federation Proceedings, (1978) Vol. 37, No. 3, pp. 391.

CODEN: FEPRA7. ISSN: 0014-9446.

DOCUMENT TYPE:

Article

FILE SEGMENT:

BR

LANGUAGE:

Unavailable

L3 ANSWER 18 OF 18 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on

STN

ACCESSION NUMBER:

1976:96182 BIOSIS

DOCUMENT NUMBER:

PREV197612096182; BR12:96182

TITLE:

THE INHIBITION OF THE CONTRACTIONS OF THE PREGNANT

UTERUS BY PROSTAGLANDIN

ANTAGONISTS.

AUTHOR(S):

GYORY G; KISS C

SOURCE:

(1976) pp. 995. SAMUELSSON, BENGT AND RODOLFO PAOLETTI (ED.). ADVANCES IN PROSTAGLANDIN AND THROMBOXANE RESEARCH, VOL. 2. PROCEEDINGS OF INTERNATIONAL CONFERENCE. FLORENCE, ITALY. MAY 1975. XVI+522P. ILLUS. RAVEN PRESS: NEW YORK,

N.Y., U.S.A. ISBN 0-89004-050-8.

DOCUMENT TYPE:

FILE SEGMENT:

Book BR

LANGUAGE:

Unavailable

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